



**Sammamish
Plateau Water**

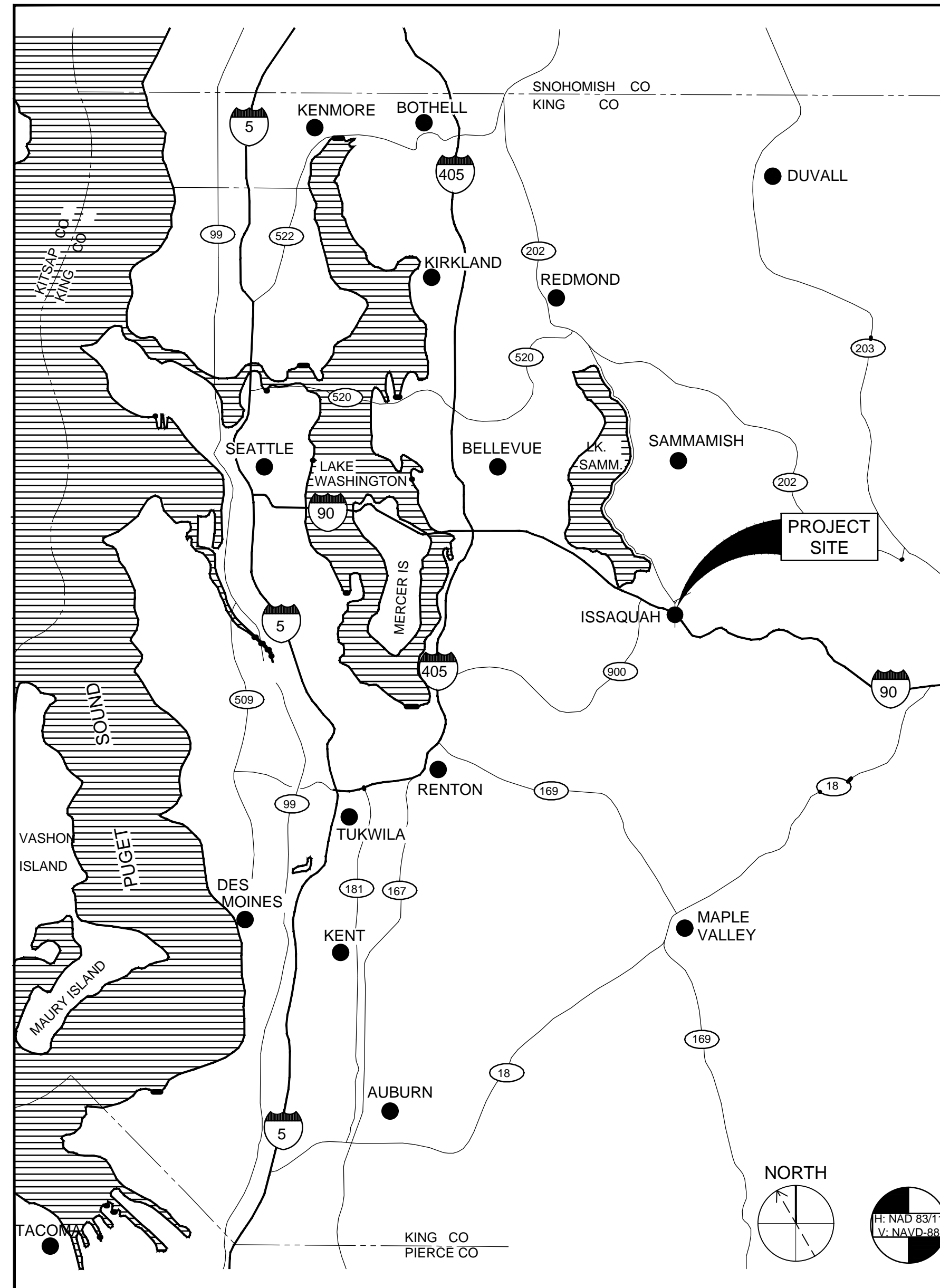
WELL 9 PFAS TREATMENT FACILITY PROJECT NO. c20005

**90% DESIGN PACKAGE
DECEMBER 2020**

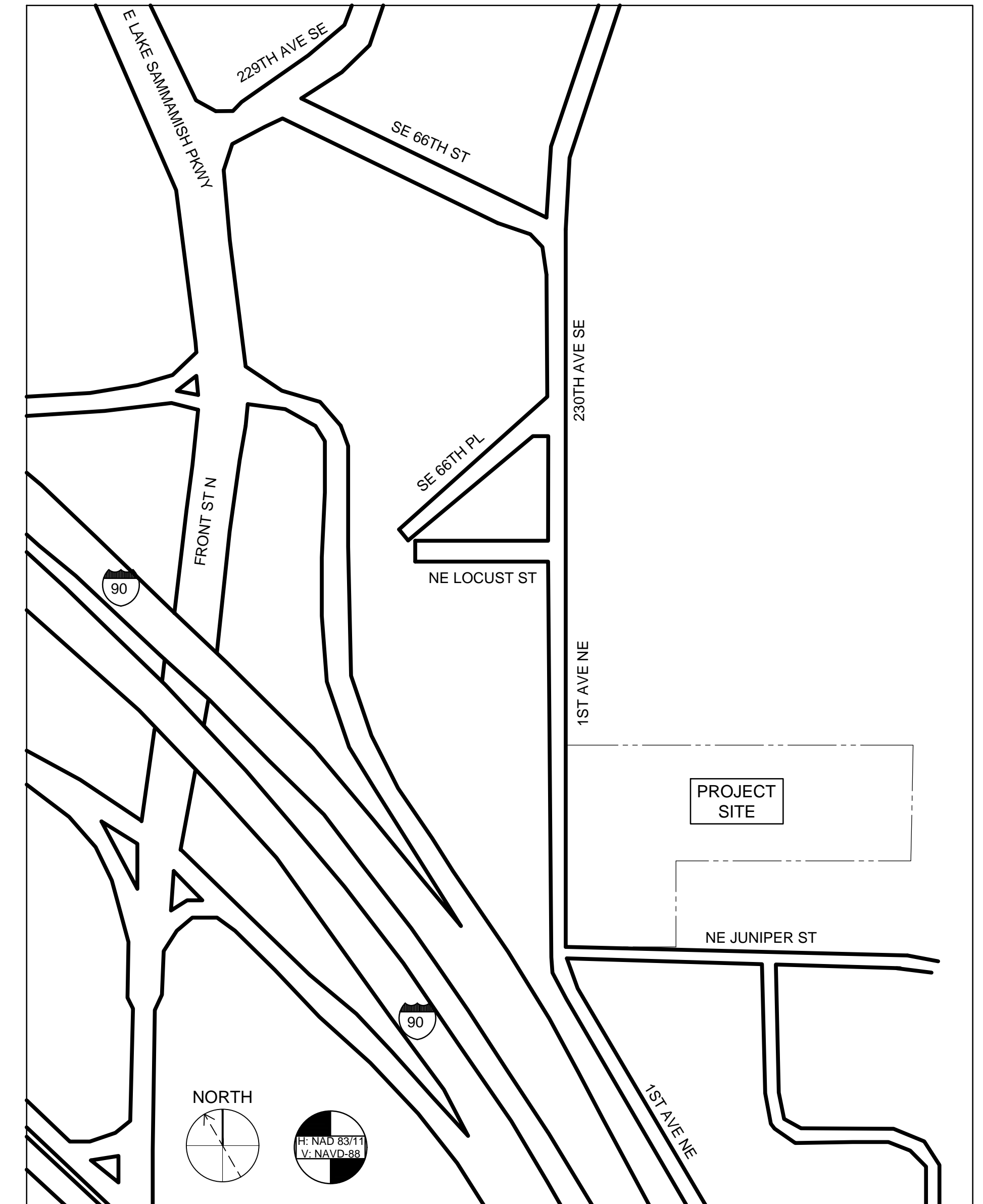
**VOLUME 3 OF 3
DRAWINGS**

**Brown AND
Caldwell**

**WAGNER
ARCHITECTS
•• PLANNERS**



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS

**SAMMAMISH PLATEAU WATER & SEWER DISTRICT
APPROVED FOR CONSTRUCTION**

GENERAL MANAGER

DATE

101	ED-11-1001	DEMOLITION PLAN FOR WELL 9 CHEMICAL ROOM
INSTRUMENTATION		
102	I-00-0001	LEGENDS AND SYMBOLS 1
103	I-00-0002	LEGENDS AND SYMBOLS 2
104	I-00-0003	LEGENDS AND SYMBOLS 3
105	I-00-0004	ABBREVIATIONS AND GENERAL NOTES
106	I-12-1001	P&ID - BRINE TANK
107	I-20-1001	NOT USED
108	I-20-1002	P&ID - GAC VESSELS 1 AND 2
109	I-20-1003	P&ID - GAC VESSELS 3 AND 4
110	I-20-1004	P&ID - GAC VESSELS 5 AND 6
111	I-20-1005	P&ID - GAC VESSELS 7 AND 8
112	I-20-1006	P&ID - SPENT BACKWASH TANK
113	I-20-1007	P&ID - GRINDER PUMP
114	I-20-1008	P&ID - INSTRUMENT AIR
115	I-00-3001	NETWORK BLOCK DIAGRAM
116	I-12-3001	WELL 9 BUILDING LOOP DIAGRAM 1
117	I-20-3001	GAC BUILDING PANEL LAYOUT DRAWING
118	I-20-3002	GAC BUILDING LOOP DIAGRAM 1
119	I-20-3003	GAC BUILDING LOOP DIAGRAM 2



Sammamish Plateau Water PFAS Project

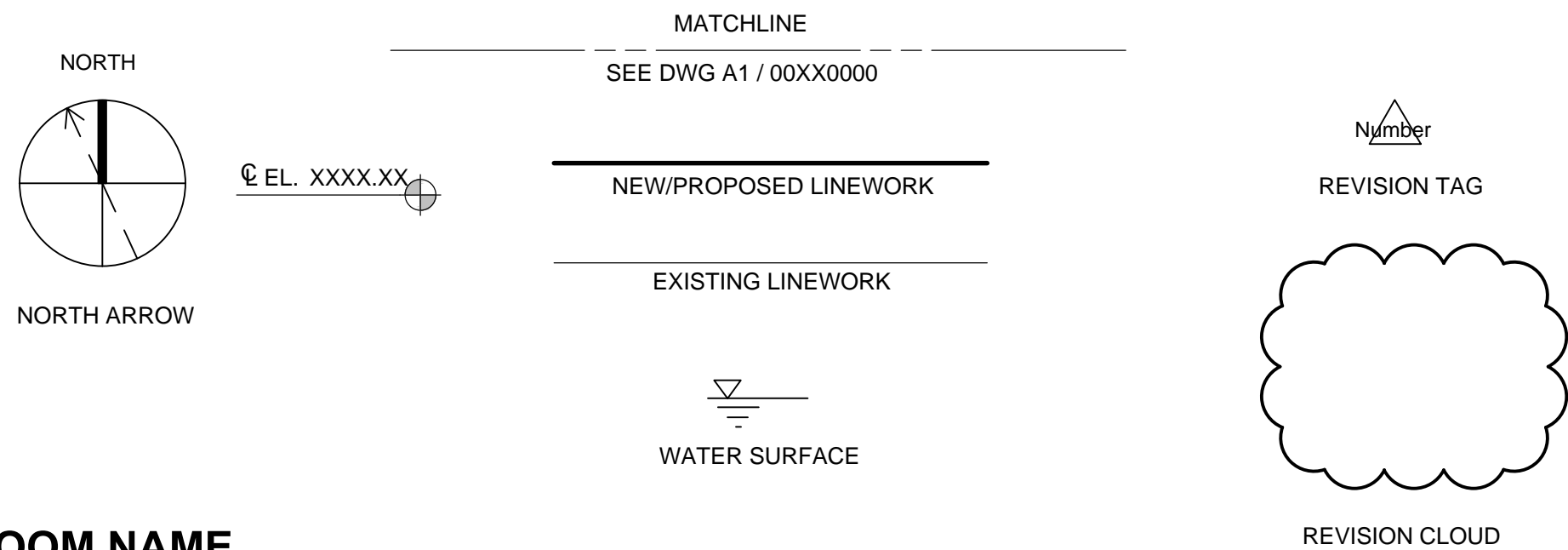
REVISONS		
REV	DATE	DESCRIPTION
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DESIGNED: J.STULTZ		
DRAWN: M.GISSE		
CHECKED:		
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APPROVED:		
FILENAME		
G-00-0002.dwg		
BC PROJECT NUMBER		
155452		
CLIENT PROJECT NUMBER		
GENERAL		
DRAWING INDEX		
DRAWING NUMBER		
G-00-0002		
SHEET NUMBER		
OF		

GENERAL NOTES

Ref ELEVATION
INTERIOR

PHOTO NUMBER

PIPING IDENTIFICATION SYSTEM



PIPE CENTRLINE ELEVATION CALL
OUT IN SECTION

WALL TAG

1. THE NOTE IN THE TITLE BLOCK OF THIS DRAWING WHICH READS "LINE IS 2 INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR IDENTIFICATION OF SCALE DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT THE DRAWING IS FULL SIZE AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF THE LENGTH IS OTHER THAN TWO INCHES, DRAWING SCALES MUST BE ADJUSTED ACCORDINGLY.
2. EXISTING PIPING IS DESIGNATED BY SERVICE RATHER THAN MATERIAL TYPE. MATERIAL TYPES, IF KNOWN, APPEAR OUTSIDE THE PIPING CALLOUT BUBBLE, AND MAY NOT BE THE SAME MATERIAL TYPES SPECIFIED FOR NEW PIPING.
3. ABBREVIATIONS USED IN THIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED OTHERWISE ON DRAWINGS.
4. ALL STANDARD DETAILS APPLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
5. SEE EACH DISCIPLINE'S FRONT END SHEETS FOR EACH DISCIPLINES STANDARD SYMBOLS, ETC.
6. SEE ADDITIONAL GENERAL NOTES THROUGHOUT DRAWING SET.


FUTURE PIPING

DRAWING NUMBERING SYSTEM

DISCIPLINES

- G GENERAL
- C CIVIL
- A ARCHITECTURAL
- S STRUCTURAL
- D PROCESS
- DD PROCESS DEMOLITION
- P PLUMBING
- M MECHANICAL/HVAC
- E ELECTRICAL
- ED ELECTRICAL DEMOLITION
- I INSTRUMENTATION

SHEET TYPE	GENERAL	CIVIL	STRUCTURAL/ ARCHITECTURAL	PROCESS MECHANICAL/PLUMBING/ BUILDING MECHANICAL	ELECTRICAL	INSTRUMENTATION
0	COVER SHEET, LEGENDS AND ABBREVIATIONS	LEGENDS AND ABBREVIATIONS	LEGENDS AND ABBREVIATIONS	LEGENDS AND ABBREVIATIONS	LEGENDS AND ABBREVIATIONS	LEGENDS AND ABBREVIATIONS
1	USER DEFINED	EXISTING CONDITIONS	PLANS	PLANS	POWER AND CONTROL PLANS	P&IDS
2	USER DEFINED	SITE PLANS/CONSTRUCTION FACILITIES AND TEMPORARY EROSION AND SEDIMENT CONTROL PLANS	ENLARGED PLANS	ENLARGED PLANS	INSTRUMENT LOCATION PLANS	PANEL LAYOUTS
3	USER DEFINED	GRADING AND PAVING PLANS	SECTIONS AND DETAILS	SECTIONS AND DETAILS	LIGHTING AND RECEPTACLE PLANS	NETWORK DRAWINGS
4	USER DEFINED	YARD PIPING AND UTILITY PLANS	ELEVATIONS	EQUIPMENT DRAWINGS (PLANS, ELEVATIONS, NOZZLE ORIENTATION, SPECIFIC DETAILS RELATED TO PIECES OF EQUIPMENT)	EQUIPMENT DRAWINGS (PLANS, ELEVATIONS, ORIENTATION, SPECIFIC TO PIECES OF EQUIPMENT	USER DEFINED
5	USER DEFINED	ROADWAY PLAN AND PROFILES	USER DEFINED	DIAGRAMS	DIAGRAMS	USER DEFINED
6	USER DEFINED	PIPELINE PLAN AND PROFILES	USER DEFINED	USER DEFINED	USER DEFINED	USER DEFINED
7	SCHEDULES	SCHEDULES	SCHEDULES	SCHEDULES	SCHEDULES	SCHEDULES
8	USER DEFINED	TYPICAL DETAILS	TYPICAL DETAILS	TYPICAL DETAILS	TYPICAL DETAILS	TYPICAL DETAILS
9	USER DEFINED	USER DEFINED (FOR TYPES THAT DO NOT FALL IN OTHER CATEGORIES)	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES)	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES)	3D REPRESENTATIONS (ISOMETRICS, PERSPECTIVES)	USER DEFINED

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

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BC PROJECT NUMBER	155452
CLIENT PROJECT NUMBER	

GENERAL NOTES AND SYMBOLS

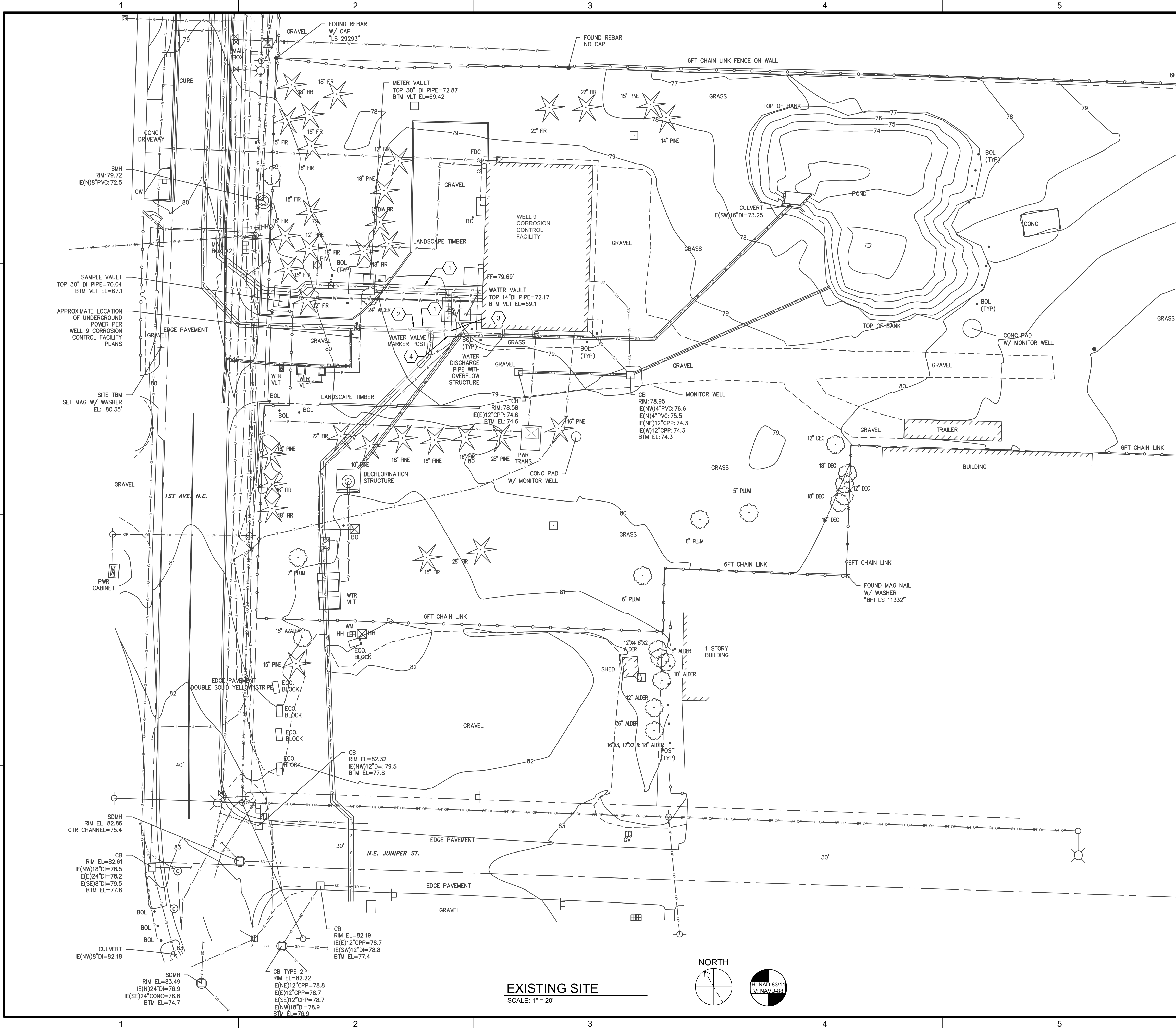
G-00-1001

SHEET NUMBER
OF

1	2	3	4	5	6
A A/C A AA AB AC	AIR CONDITIONING AMPERE ATOMIC ABSORPTION UNIT ANCHOR BOLT, AGGREGATE BASE ASPHALT CONCRETE, ALTERNATING CURRENT, AIR CONDITIONER	D D DC DEC DEMO DET DFD DG DI DIA DIAG DIF DIFF DIR DISCH DN DR DRG DT DWG DWLS	DRAIN, DEGREE, DEEP DIRECT CURRENT DENSITY METER DECREASING DEMOLISH DETAIL DUCT FIRE DAMPER DIGESTER GAS DUCTILE IRON PIPE DIAMETER DIAGRAM DIFFUSER DIFFERENTIAL DIRECTION DISCHARGE DOWN DRAIN ROCK, DRAINAGE, DRIVE DEGRATING DOUBLE TEE, DRAIN TRAP, DRIP TRAP DRAWING DOWELS	GSP GTW GV GWB GWT GYP	GALVANIZED STEEL PLATE GAC TREATED WATER GATE VALVE GYPSUM WALLBOARD GROUND WATER TABLE GYPSUM
ACOU ADD ADPT AFD AFF AGGR AIC AL ALM ALT AMB AMD ANC APPROX AR ARCH AS ASPH ASSY ASYM ATM AUTO AUX AVE AVG AWG	ACOUSTIC ADDITION(AL) ADAPTER ARC FLASH SENSING DEVICE ABOVE FINISHED FLOOR AGGREGATE AMPS INTERRUPTING CURRENT ALUMINUM ALARM ALTERNATE AMBIENT AIR MONITORING DEVICE ANCHOR APPROXIMATE(LY) ALARM RELAY, AIR RETURN ARCHITECTURAL AIR SUPPLY ASPHALT ASSEMBLY ASYMMETRICAL ATMOSPHERE AUTOMATIC AUXILIARY AVENUE AVERAGE AMERICAN WIRE GAUGE	E E EA EAT EC ECC ECO ED EE EF EFF EJ EL ELEC ELL EMBD EP EPDM EPS EQ EQUIP EQUIV ES ESMT ETM EVC EW EW TAB EWEF EX EXG EXIST EXPANSION EXT	EAST, EMERGENCY EXHAUST AIR, EACH ENTERING AIR TEMPERATURE END OF CURVE, EVAPORATIVE COOLER, EMPTY CONDUIT ECCENTRIC ECOLOGY EXTRACTOR DAMPER, EQUIPMENT DRAIN EDGE END EACH FACE EFFLUENT EXPANSION JOINT ELEVATION ELECTRICAL ELBOW EMBEDDED EDGE OF PAVEMENT, ELECTRIC/PNEUMATIC CONVERTER ETHYLENE PROPYLENE DIENE MONOMER EXPANDED POLYSTYRENE EQUAL EQUIPMENT EQUIVALENT EXISTING SURFACE, ELECTRICAL SERVICE EASEMENT ELAPSED TIME METER END OF VERTICAL CURVE EACH WAY EACH WAY TOP AND BOTTOM EACH WAY EACH FACE EXTRA EXHAUST GRILLE EXISTING EXPANSION EXTERIOR	H H H/A HC HD HDOT HDSG HDPE HDR HDWR HG HGT HH HHW HID HMS HOA HOR HOP HPA HPEL HPS HR HTV HV HVAC HWTR HYD HYDT HZ	HIGH HAND AUTO HEATING COIL, HANDICAP HEAVY DUTY HEAVY DUTY OILTIGHT HOT-DIPPED GALVANIZED HIGH DENSITY POLYETHYLENE HEADER HARDWARE MERCURY, HIGH GRADE HEIGHT HAND HOLE HOT WATER HIGH INTENSITY DISCHARGE HOLLOW METAL HAND-OFF-AUTO HORIZONTAL HIGH PRESSURE, HIGH POINT, HORSEPOWER HIGH PRESSURE AIR HIGHPOINT ELEVATION HIGH PRESSURE SODIUM HANDRAIL, HEAT RESERVOIR, HOUR HIGH TEMPERATURE VENT HOSE VALVE, HEATING AND VENTILATING UNIT, HIGH VOLTAGE HEATING, VENTILATING, AND AIR CONDITIONING HIGH WATER HYDRAULIC HYDRANT HERTZ
B BBE BC BCR BD BE BF BFL BHP BLDG BLE BLK BLS BMK BO BOL BOP BOT BRDG BRG BRK BRZ BTM BTU BV BVC BWS BWW	BEVEL BOTH ENDS BEGINNING OF CURVE, BARE COPPER BEGINNING OF CURVE RETURN BOARD BOILER EXHAUST BLIND FLANGE BUTTERFLY VALVE BRAKE HORSEPOWER BUILDING BEVEL LARGE END BLOCK BALLAST BENCHMARK BLow OFF BOLLARD BOTTOM OF PIPE, BACK OF PIPE BOTTOM BRIDGING BEARING BREAK BRONZE BOTTOM BRITISH THERMAL UNIT BALL VALVE BEGINNING OF VERTICAL CURVE BACKWASH SUPPLY BACKWASH WASH WATER	F F FAB FAI FB FC FCA FCD FCR FDC FEET FF F-F FG FH FHD FIN FL FLA FLC FLEX FLG FLP FLR FLM FMH FMSS FND FO FOB FOT FP FRC FPM FPS FR FRP FRS FRWP FS FT FTG FURRG FTGS FUT	FAHRENHEIT, FACE FABRICATE(D)(TION) FRESH AIR INTAKE FLAT BAR, FLOOR BEAM FAIL CLOSED FLANGED COUPLING ADAPTER FLOOR CLEANOUT FINE CRUSHED ROCK FLOOR DRAIN, FIRE DAMPER, FOUNDATION DRAIN FLEXIBLE DUCT CONNECTOR / FIRE DEPARTMENT CONNECTION FIRE EXTINGUISHER FAR FACE, FINISH FLOOR, FLAT FACE FACE TO FACE FINISH GRADE FIRE HYDRANT, FLAT, FLUORESCENT FLATHEAD FINISHED, FINISH FLOW LINE, FLANGE, FAIL LAST FULL LOAD AMPS FLOCCULATOR FLEXIBLE FLANGE(D) FLUID POWER UNIT FLOOR FORCE MAIN FLEXIBLE METAL HOSE FORCEMAIN SANITARY SEWAGE FOUNDATION FAIL OPEN, FIBER OPTIC FLAT ON BOTTOM FLAT ON TOP FIRE PROTECTION FLEXIBLE PIPE COUPLING FEET PER MINUTE FEET PER SECOND FRAME FIBERGLASS REINFORCED PIPE FREEZESTAT FIBERGLASS REINFORCED WALL PANEL FAR SIDE FEET FOOTING FURRING FITTINGS FUTURE	I IA ID IE IF IMC IN INCAND INF INS INST INSTR INT INTER INTLK INV IO IRRG IT	INTEGRAL CONTROL INSTRUMENT AIR INSIDE DIAMETER INVERT ELEVATION INSIDE FACE INDICATING LAMP, INSTRUMENT LOOP, INTAKE LOUVER INTERMEDIATE METAL CONDUIT INFLUENT INCANDESCENT INFLUENT INSULATE(D)(ION) INSTANTANEOUS INSTRUMENTATION INTERIOR, INTERSECTION INTERMEDIATE INTERLOCK INVERT INPUT/OUTPUT IRRIGATION INSTRUMENT TAP
C CAF CAP CARV CB CC C-C CCP CCSP CD CDT CED CER CF CFH CFM CFR CFS CH CHW CI CIP CIRC CJ CKPL OKT CKV C/L CL CLG CLK CLR CLSM CM CML CMP CMU CO COF COL COM CONC COND CONN CONST CONT CP CPLG CPVC CR CREJ CS CSD CSP CT CTR CTRL CU CULV C/W CWA CY	CONDUIT COMBUSTION AIR FAN CAPACITY COMBINATION AIR RELEASE VALVE CATCH BASIN COOLING COIL CENTER TO CENTER CONCRETE CYLINDER PIPE CONCRETE LINED AND COATED STEEL PIPE CEILING DIFFUSER, CHEMICAL DRAIN CONDULET CEILING EXHAUST DIFFUSER CEILING EXHAUST REGISTER CUBIC FEET CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CODE OF FEDERAL REGULATIONS CUBIC FEET PER SECOND CHANNEL COLD WATER CAST IRON CAST IRON PIPE, CAST IN PLACE CIRCUMFERENCE CONSTRUCTION JOINT CHECKER PLATE CIRCUIT CHECK VALVE CENTERLINE CLEARANCE,CLEAR, CONDENSATE-LOW PRESSURE CEILING CLOCK CLEAR CONTROLLED LOW-STRENGTH MATERIAL CENTIMETERS, CONDENSATE-MEDIUM PRESSURE CEMENT MORTAR LINED CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT, CONDUIT ONLY COOLING AIR COLUMN COMMINUTOR, COMPACTOR CONCRETE CONDUCTIVITY, CONDENSATE, CONDUCTOR CONNECTION CONSTRUCTION CONTINUED(OUS) CONCRETE PIPE, CENTER POINT COUPLING CHLORINATED POLYVINYL CHLORIDE CARD READER CORRUGATED RUBBER EXPANSION JOINT CIRCULATED SLUDGE CEILING SUPPLY DIFFUSER CORRUGATED STEEL PIPE CURRENT TRANSFORMER CONTRACTOR, CENTER CONTROL CONTROL UNIT, COPPER, CUBIC CULVERT COMPLETE WITH CONCRETE WASHOUT AREA CUBIC YARD	G G GAC GAL GALV GB GD GEC GEN GF GFEP GFI GI GL GLDI GND GPD GPM GRD GRS GRT GRTG GSKT	GUTTER ELEVATION GAGE, GAUGE GRANULAR ACTIVATED CARBON GALLON GALVANIZED GRADE BREAK GUARD GROUND ELECTRODE CONDUCTOR GENERAL GROUND FAULT GROUND FAULT EQUIPMENT PROTECTION GROUND FAULT INTERRUPTER GALVANIZED IRON GLASS GLASS LINED DUCTILE IRON GROUND GALLONS PER DAY GALLONS PER MINUTE GRADE GALVANIZED RIGID STEEL GROUT GRATING GASKET	J JCT JST JT K K KCMIL KO KSF KSI KV KVA KVAR KWH KWH L L LAM LAT LB LC LED LEV LF LFBR LG LJ LLV LO LOS LP LSIG LT LTG LPEL LWR	JUNCTION JOIST JOINT KIP (1000 POUNDS) 1000 CIRCULAR MIL KNOCK OUT KIPS PER SQUARE FOOF KIPS PER SQUARE INCH KILOVOLT KILOVOLT AMPERE KILOWATT KILOWATT HOUR LENGTH LAMINATED LEAVING AIR TEMPERATURE, LATERAL, LATITUDE POUND LIGHTING CONTACTOR LIGHT EMITTING DIODE LEVEL LIGHT FIXTURE, LINEAR FEET LINEAR FEET BASEBOARD LONG LAP JOINT LONG LEG VERTICAL LUBRICATING OIL LOCK STOP LOW PRESSURE, LOW POINT LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT LONG TIME LIGHTING LOW POINT ELEVATION LOWER
MPC MPH MTL MUL/DIV MV MW	MINI POWER CENTER MILES PER HOUSE METAL MULTIPLY/DIVIDE MEDIUM VOLTAGE, MILLIVOLT, MUD VALVE MONITORING WELL	M M M/A MC MCH MDC ME NEF NG NIC NO NOM NO NPSH NPT NRS NS NTS NU NW	NEUTRAL, NORTH NONAUTOMATIC, NOT APPLICABLE SODIUM HYDROXIDE NORMALLY CLOSED NORTHEAST NEGATIVE NONFUSED NATURAL GAS NOT IN CONTRACT NORMALLY OPEN, NUMBER NOMINAL NAMEPLATE NET POSITIVE SUCTION HEAD NATIONAL PIPE THREAD RAISED FACE NEAR SIDE NOT TO SCALE NOT USED NORTHWEST	R R R/C RA RAD RAF RAW RCDR RCP RD RDWY REC RECD RECIRC RED REF REIN REM REIN RES RESIL RE-STL REV RF RG RGS RJ RL RM RMS RND RO RP	RADIUS, RISER REINFORCED CONCRETE RETURN AIR RADIUS ROLL TYPE AIR FILTER RAW WATER RECORDER REINFORCED CONCRETE PIPE ROOF DRAIN, ROAD ROADWAY RECESSED RECEIVED RECIRCULATION REDUCE(R) REFERENCE REINFORCE, REINFORCING REMOVE, REMOVABLE REQUIRED RESISTOR RESILIENT

A

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GENERAL NOTES:

- CONTRACTOR TO VERIFY EXISTING UTILITIES AT CONNECTION POINTS WITH NEW PIPING PRIOR TO ORDERING MATERIALS

KEY NOTES:

- TWO EXISTING BALL AND SOCKET JOINTS.
- POSSIBLE EXISTING MJ HARNESS AND RESTRAINT HARNESS. POSSIBLE MISALIGNMENT OF EXISTING PIPELINE, ACCOMMODATED BY BALL AND SOCKET JOINTS.
- EXISTING 30" X 24" X 250# FLANGE TEE.
- EXISTING BLIND FLANGE ON 250# FLANGE WITH CONCRETE BLOCKING.



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

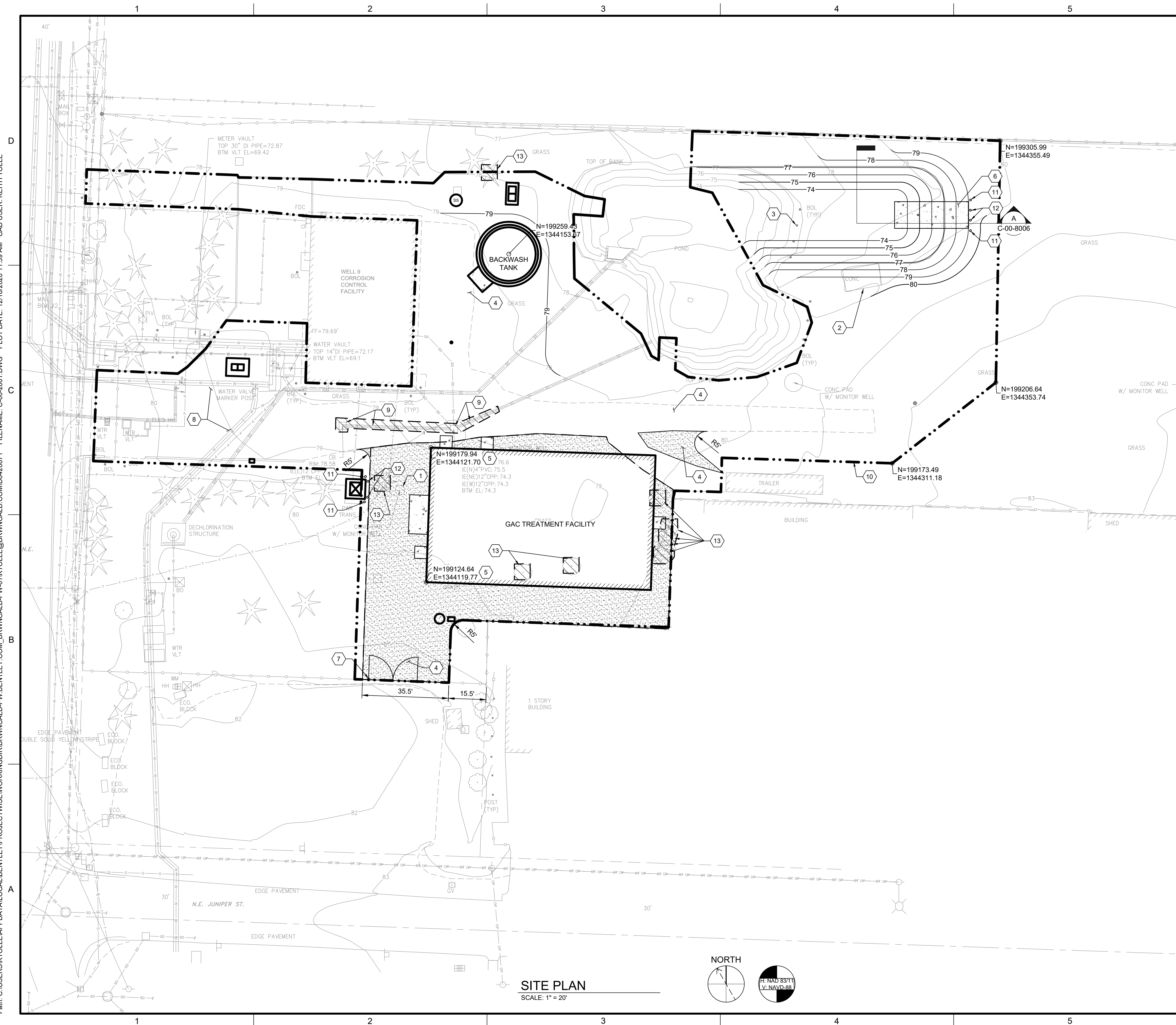
LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.WEBER
DRAWN: K.TOLLE
CHECKED:
APPROVED:
FILENAME C-00-1001.dwg
BC PROJECT NUMBER 155452
CLIENT PROJECT NUMBER

CIVIL

EXISTING SITE PLAN

DRAWING NUMBER
C-00-1001
SHEET NUMBER
OF



GENERAL NOTES:

1. PROTECT ALL TREES NOT DESIGNATED FOR REMOVAL.

KEY NOTES:

1. SALVAGE MONITORING EQUIPMENT AND DELIVER TO DISTRICT. DECOMMISSION MONITORING WELL PER WAC 173-160.
2. REMOVE AND DISPOSE CONCRETE SLAB.
3. SALVAGE 4 BOLLARDS FOR POTENTIAL RE-USE.
4. NEW AND RESTORED GRAVEL SURFACING.
SEE B/C-00-8007.
5. SEE S-20-1001 FOR LOCATION OF COORDINATES.
6. SEE A/C-00-8006 AND B/C-00-8006 FOR INFILTRATION POND AND ACCESS ROAD SECTIONS.
7. CHAIN LINK FENCE AND GATE. SEE D/C-00-8007.
8. SEE C-00-8001 FOR PIPING CONNECTION DETAILS IN THIS AREA. SEE C-00-8011 AND C-00-8012 FOR PIPING CONNECTION SEQUENCING.
9. SALVAGE FRAME AND GRATE FOR RE-USE. DEMOLISH AND REMOVE 2 CATCH BASINS AND CONNECTING PIPE TO ALLOW FOR CONSTRUCTION OF NEW PIPING. SEE C-00-4001 FOR YARD PIPING.
10. CONSTRUCTION WORK LIMITS, TOTAL AREA 0.95 ACRES.
11. PERMANENT BOLLARD. SEE D/C-00-8006.
12. REMOVABLE BOLLARD. SEE C/C-00-8006.
13. REMOVE TREE. 9 TOTAL.



90% DESIGN



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REVISIONS

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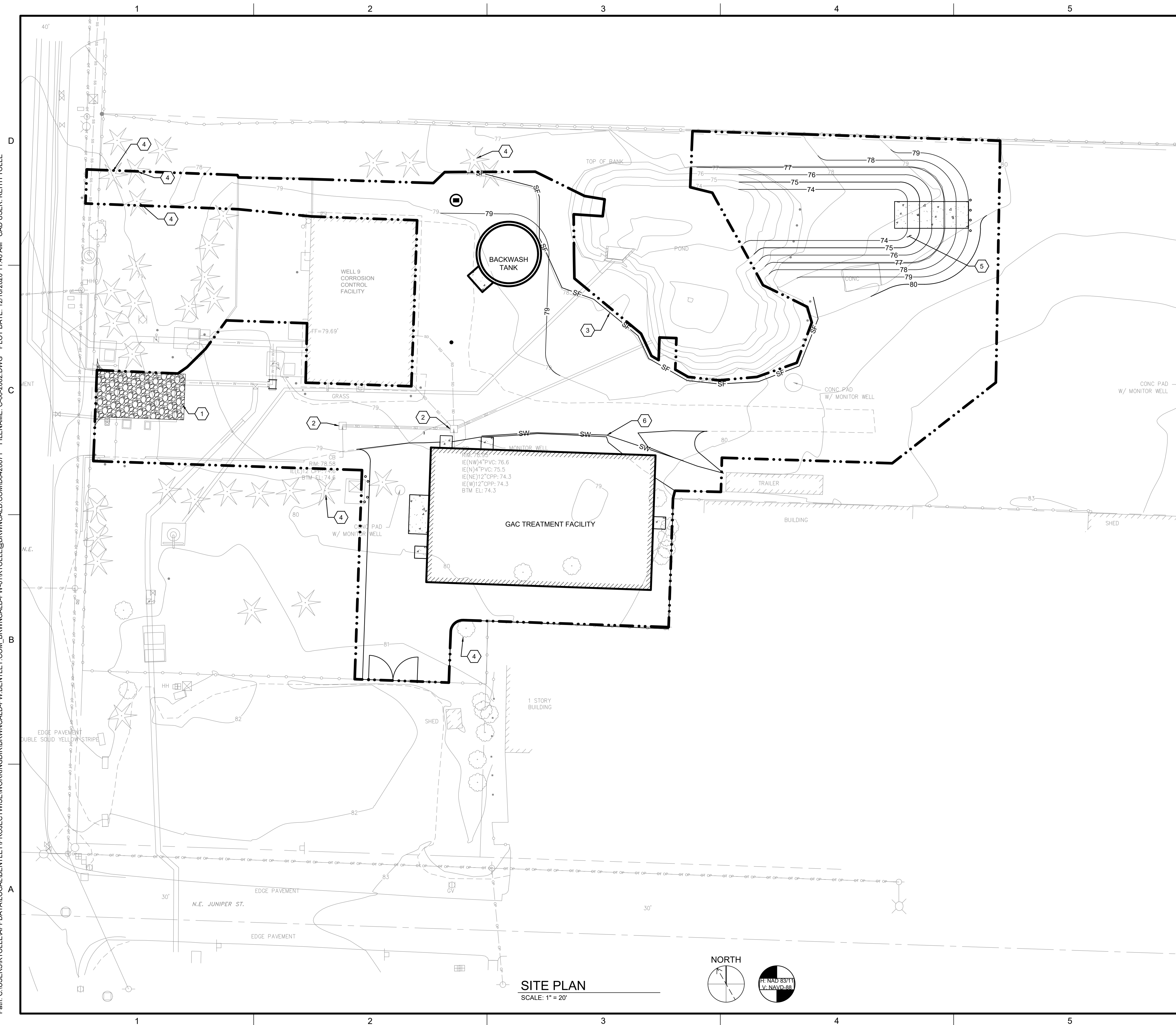
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CIVIL

SITE PLAN

DRAWING NUMBER
C-00-2001

SHEET NUMBER
OF



GENERAL NOTES:

1.

KEY NOTES:

1. STABILIZED CONSTRUCTION ENTRANCE. SEE A/C-00-2004.
2. STORM CATCH BASIN INSERTS. SEE SHEET C/C-00-2004.
3. TEMPORARY SILT FENCE. SEE SHEET D/C-00-2004.
4. TREE PROTECTION. SEE SHEET E/C-00-2004.
5. DO NOT DRIVE OR STORE HEAVY EQUIPMENT IN PROPOSED POND AREA. DRAIN AND/OR PROTECT EXISTING POND WHILE GRADING POND EXPANSION. PREVENT SEDIMENT LADEN WATERS FROM ENTERING EXISTING POND.
6. STRAW WATTLE. SEE SHEET B/C-00-2004.

Brown AND Caldwell

90% DESIGN



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Plateau Water
PFAS Project

REVISIONS

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LINE IS 2 INCHES
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FILENAME

C-00-2002.dwg
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

CIVIL

TESC PLAN

DRAWING NUMBER
C-00-2002
SHEET NUMBER
OF



NORTH

1. ALL SS SHALL BE ENCASED IN CONCRETE TO PROTECT WELL HEAD.
2. ALL RAW AND GTW PIPE SHALL BE RESTRAINED JOINT DI
3. SEE C-00-8002 FOR CONNECTIONS TO EXISTING PIPING.

1. TYPE II BLOW OFF ASSEMBLY, TYPE OF 5 TOTAL, 4 NEAR GAC TREATMENT FACILITY BUILDING AND 1 NEAR BACKWASH TANK. SEE A/C--00-8004 AND C-00-6003.
2. STEEL CASING ON BWV EXTENDING FOUNDATION LENGTH ON EAST SIDE OF BUILDING. APPROX. 60 LF. SEE A/C--00-8007.
3. MARK SEWER AND FORCE MAIN WITH TRACER WIRE. SEE F/C--00-8004.
4. GRINDER PUMP. SEE SHEET P-20-3003.
5. NO DI JOINTS OVER WATER PIPE CROSSING.
6. LOW HEAD MANHOLE. SEE E/C--00-8007.
7. CHEMICAL INJECTION VAULT. SEE SHEET C-00-8003.
8. IN-LINE ELASTOMERIC CHECK VALVE. SEE SECTION 40 05 65.35.
9. SIDE SEWER CLEAN OUT. SEE F/C--00-8005.
10. GRINDER PUMP CLEAN OUT. SEE P-20-3002.
11. PRESSURE LINE CONNECTION. SEE E/C--00-8004.
12. 2" METER SETTER. SEE I/C--00-8005.
13. CONFIRM EXISTING DRAIN DEPTH ALLOWS FOR GRAVITY FLOW AT 1% MIN SLOPE TO NEW MH BEFORE DISCONNECTING EXISTING PIPE. MAXIMIZE SLOPE ON NEW PIPE.
14. BACKWASH WATER FLOW CONTROL VAULT. SEE SHEET C-20-8001.
15. 4 FT X 4 FT SQUARE, 1.5 FT THICK QUARRY SPALL OUTLET PROTECTION PAD.
16. FIELD ROUTE 1" COPPER SAMPLE LINE. SADDLE TAP 2" WATER LINE DOWNSTREAM OF METER AND ROUTE TO VAULT. CAP INSIDE VAULT. EXISTING SAMPLE LINE TO BE ABANDONED.
17. CONNECT AT DOWNSPOUT LOCATIONS AND ROUTE TO INFILTRATION MAINTAINING MINIMUM 1% SLOPE AND 12" COVER. PROTECT PIPE CROSSINGS AS REQUIRED.
18. CONNECT TO EXISTING NATURAL GAS LINE BEFORE REGULATOR/METER ON BUILDING. SEE SECTION 23 11 23

SCALE: 1" = 20'

LINE IS 2 INCHES
AT FULL SIZE

DRAWN: K.TOLLE

CHECKED:

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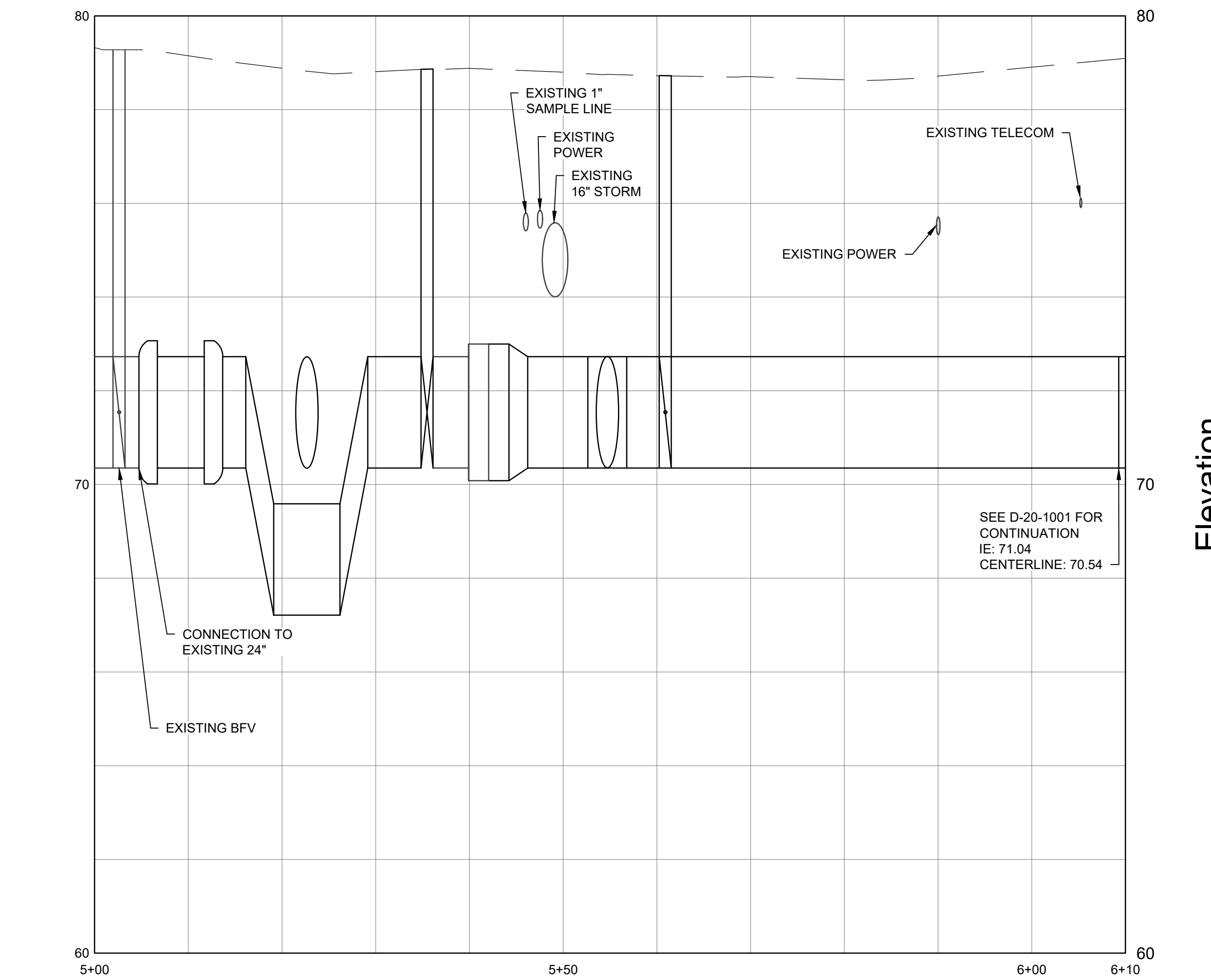
CIVIL

UTILITY PLAN

DRAWING NUMBER
C-00-4001
SHEET NUMBER
OF



Sammamish Plateau Water PFAS Project



PLAN

SCALE: 1" = 10'

PROFILE

SCALE: H = 1" = 10'; V = 1" = 2'

1. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND PROTECT AS NECESSARY.
2. SEE C-00-8002 FOR PIPING CONNECTION DETAILS.
3. SLOPE PIPE SO THERE ARE NO HIGH POINTS OR LOW POINTS.

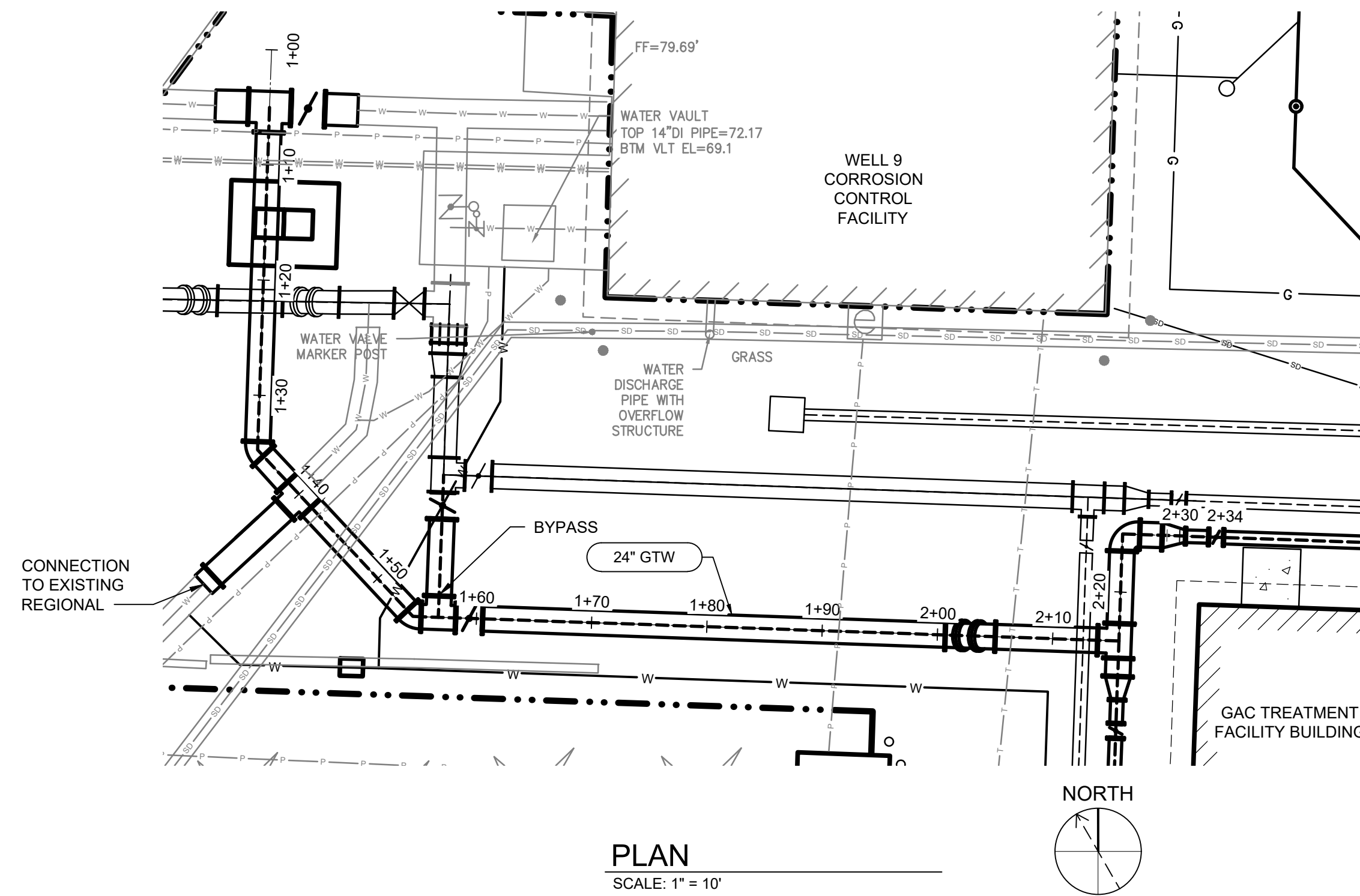
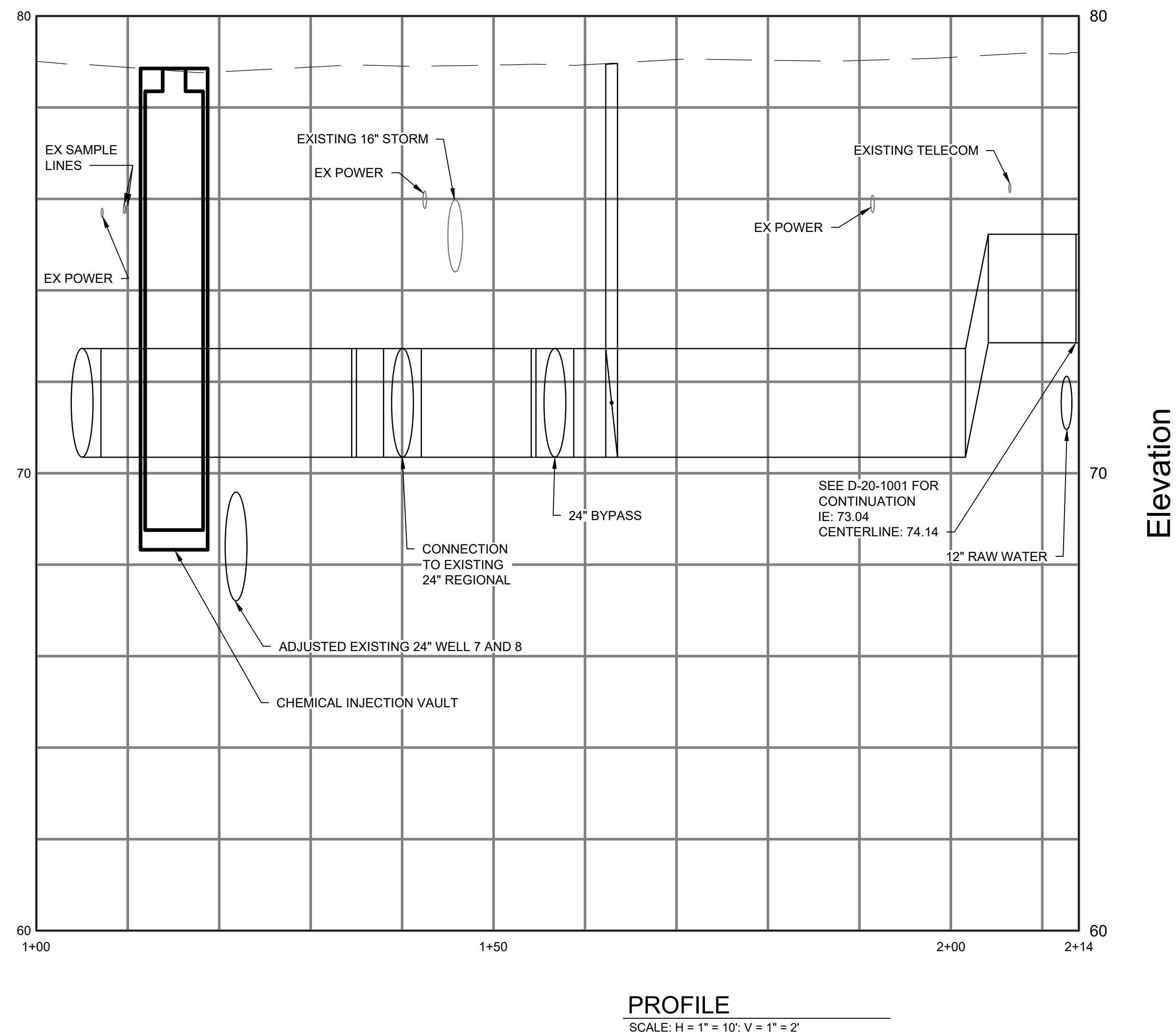
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2. SEE C-00-8002 FOR PIPING CONNECTION DETAILS.
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KEY NOTES:

•

Brown AND Caldwell

90% DESIGN



Sammamish
Plateau Water
PFAS Project

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

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DRAWN: K.TOLLE

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GTW PIPE PLAN
AND PROFILE

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OF



1. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND PROTECT AS NECESSARY.
2. SEE C-00-8002 FOR PIPING CONNECTION DETAILS.
3. SLOPE PIPE SO THERE ARE NO HIGH POINTS OR LOW POINTS.

KEY NOTES:

1. CONTRACTOR TO VERIFY SIZE, MATERIAL AND LOCATION OF EXISTING SEWER. CONNECT TO EXISTING SEWER. SEE SHEET C-00-8005.
2. TYPE II BLOW OFF ASSEMBLY. SEE A/C-00-8004.

— SEE D-20-1001 FOR CONTINUATION



SCALE: H = 1" = 10'; V = 1" = 2'



90% DESIGN



Sammamish Plateau Water PFAS Project

REVISIONS

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.WEBER

DRAWN: K.TOLLE

CHECKED:

CHECKED:

FILENAME

C-00-6003.dwg

155452

PROJECT 1

CIVIL

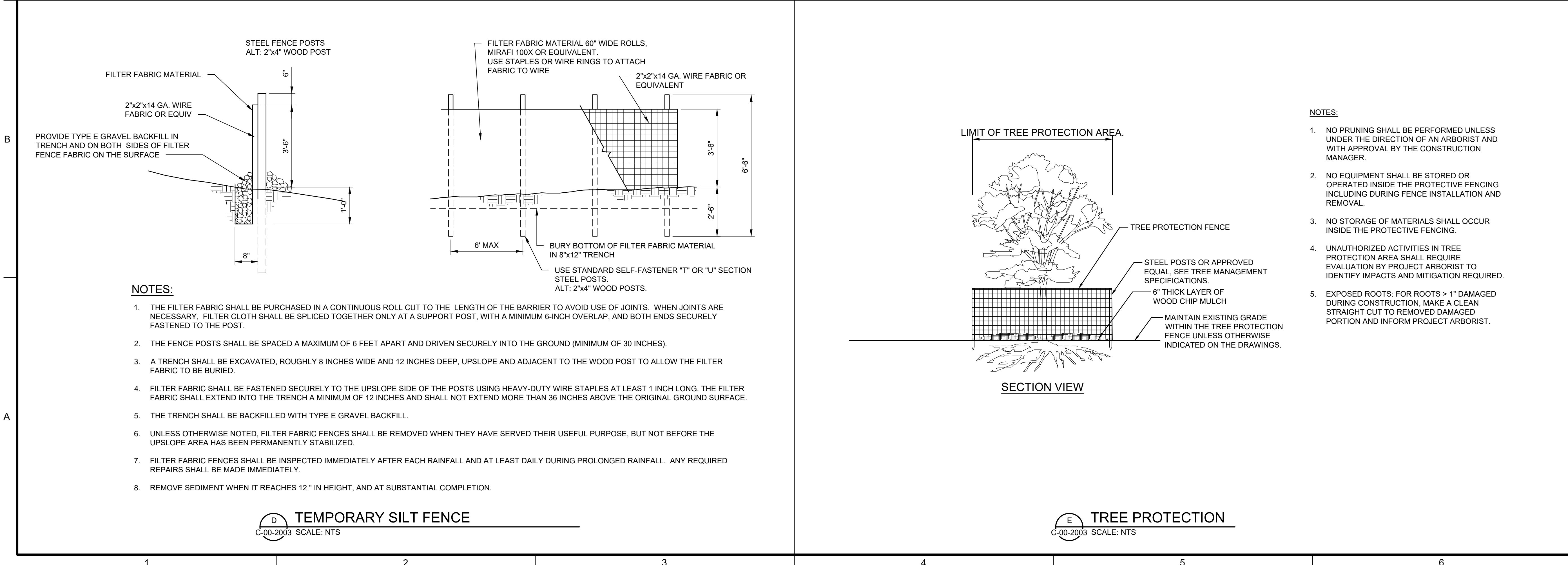
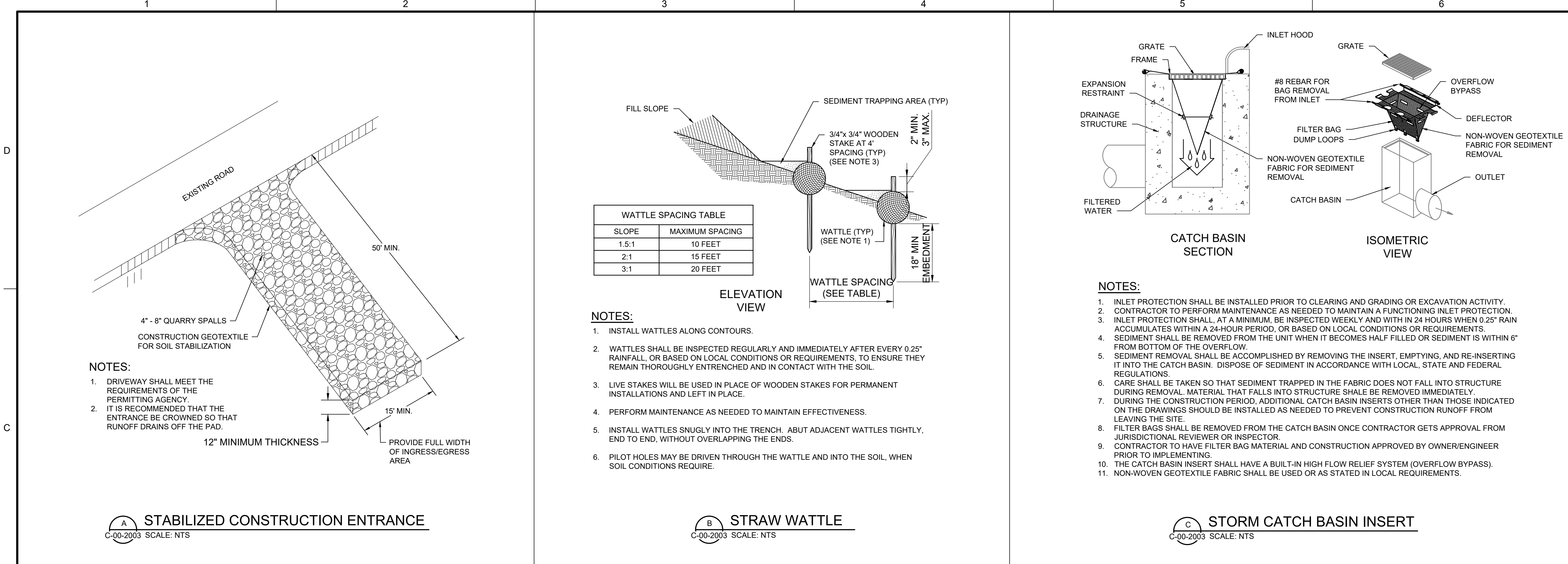
BWW PIPE PLAN AND PROFILE

DRAWING NUMBER

C-00-6003

SHEET NUMBER
OF

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Wagner_Archs.jpg



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

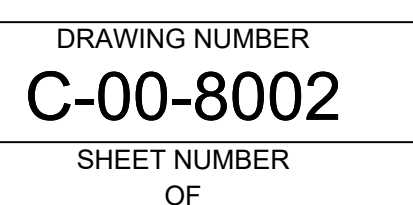
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AT FULL SIZE

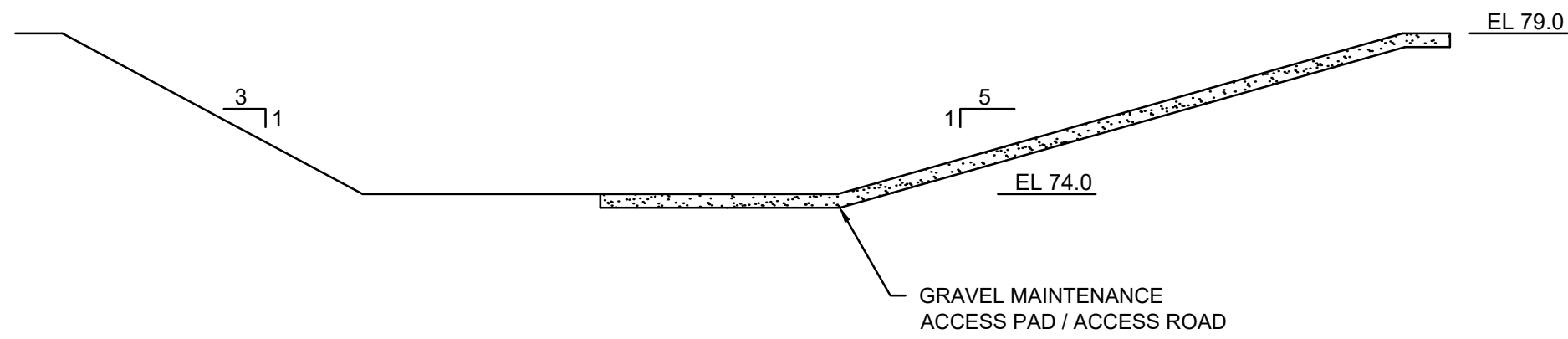
DESIGNED: K.WEBER
DRAWN: K.TOLLE
CHECKED:
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APPROVED:
FILENAME C-00-8001.dwg
BC PROJECT NUMBER 155452
CLIENT PROJECT NUMBER

TESC DETAILS

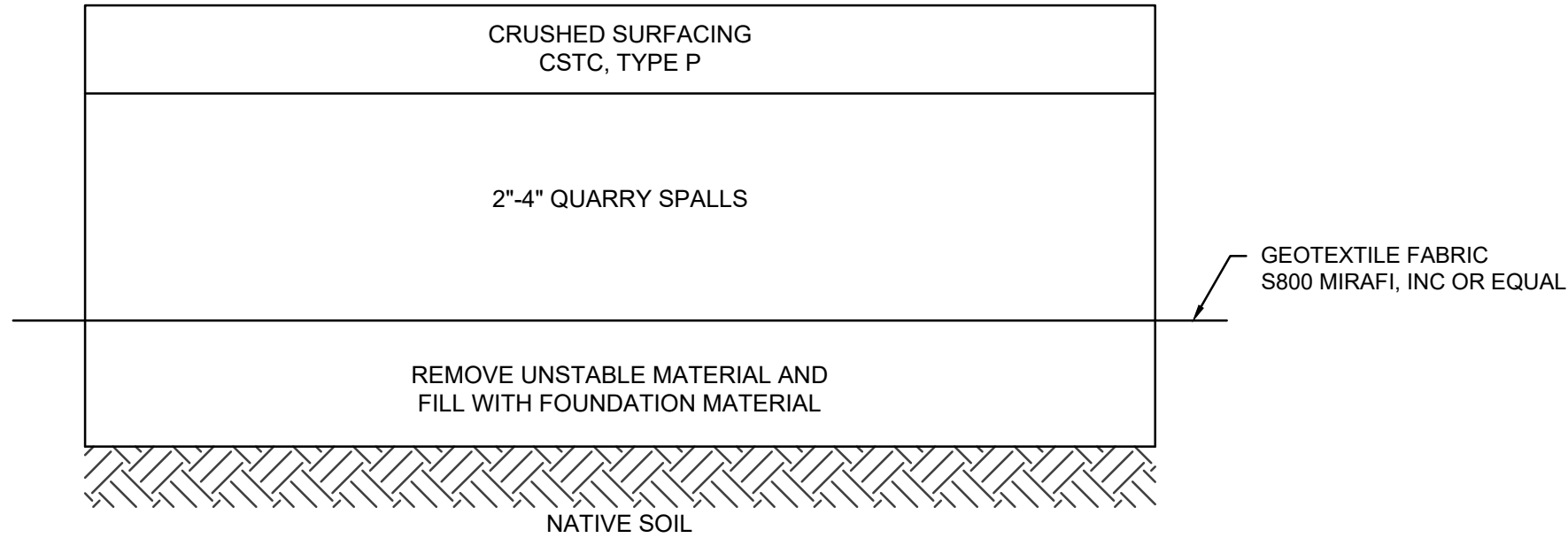
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SHEET NUMBER OF



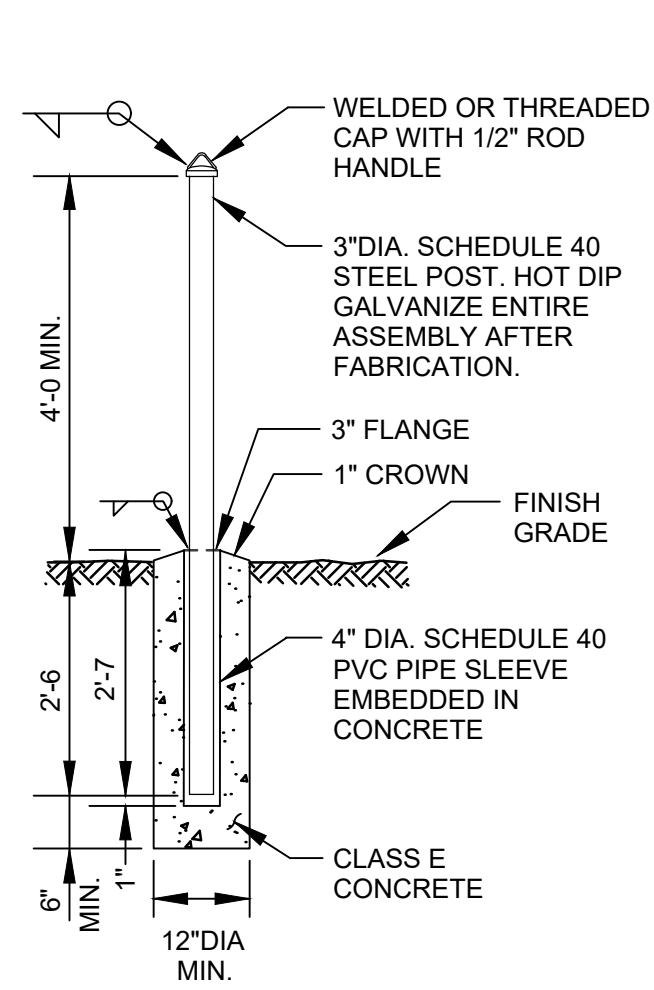
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Wagner Accts.jpg



A CROSS-SECTION OF INFILTRATION POND
C-00-2001 SCALE: NTS

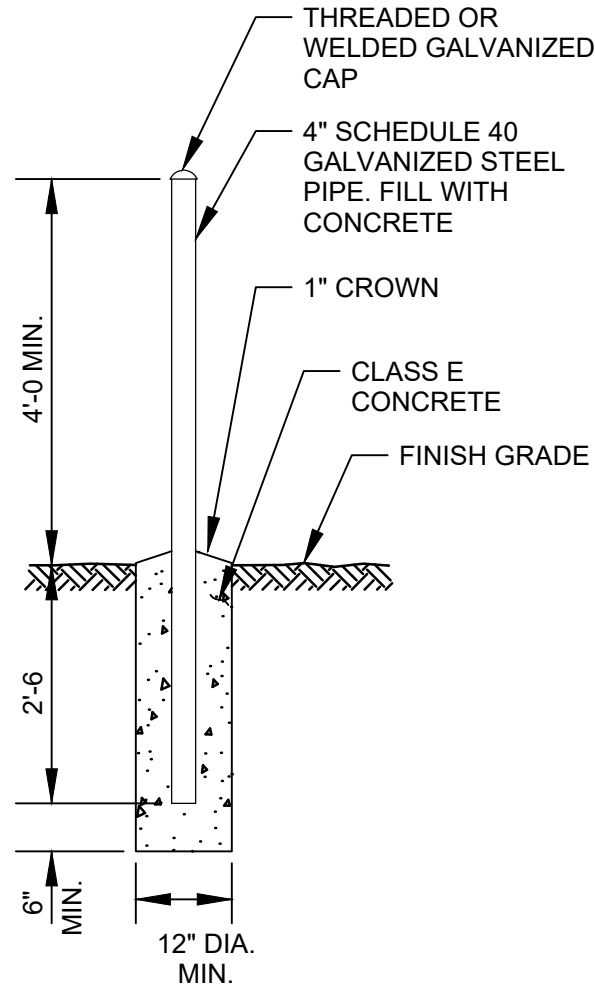


B ACCESS ROAD AND PAD PAVING CROSS-SECTION
C-00-2001 SCALE: NTS



NOTE:
1. RE-USE SALVAGED BOLLARDS AT POND LOCATION IF POSSIBLE

C REMOVABLE BOLLARD
C-00-2001 SCALE: NTS



NOTE:
1. RE-USE SALVAGED BOLLARDS AT POND LOCATION IF POSSIBLE

D PERMANENT BOLLARD
C-00-2001 SCALE: NTS



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

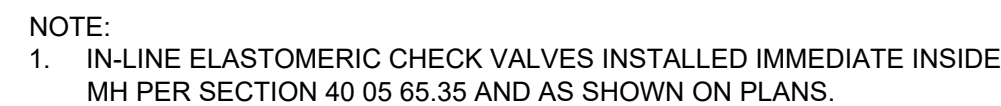
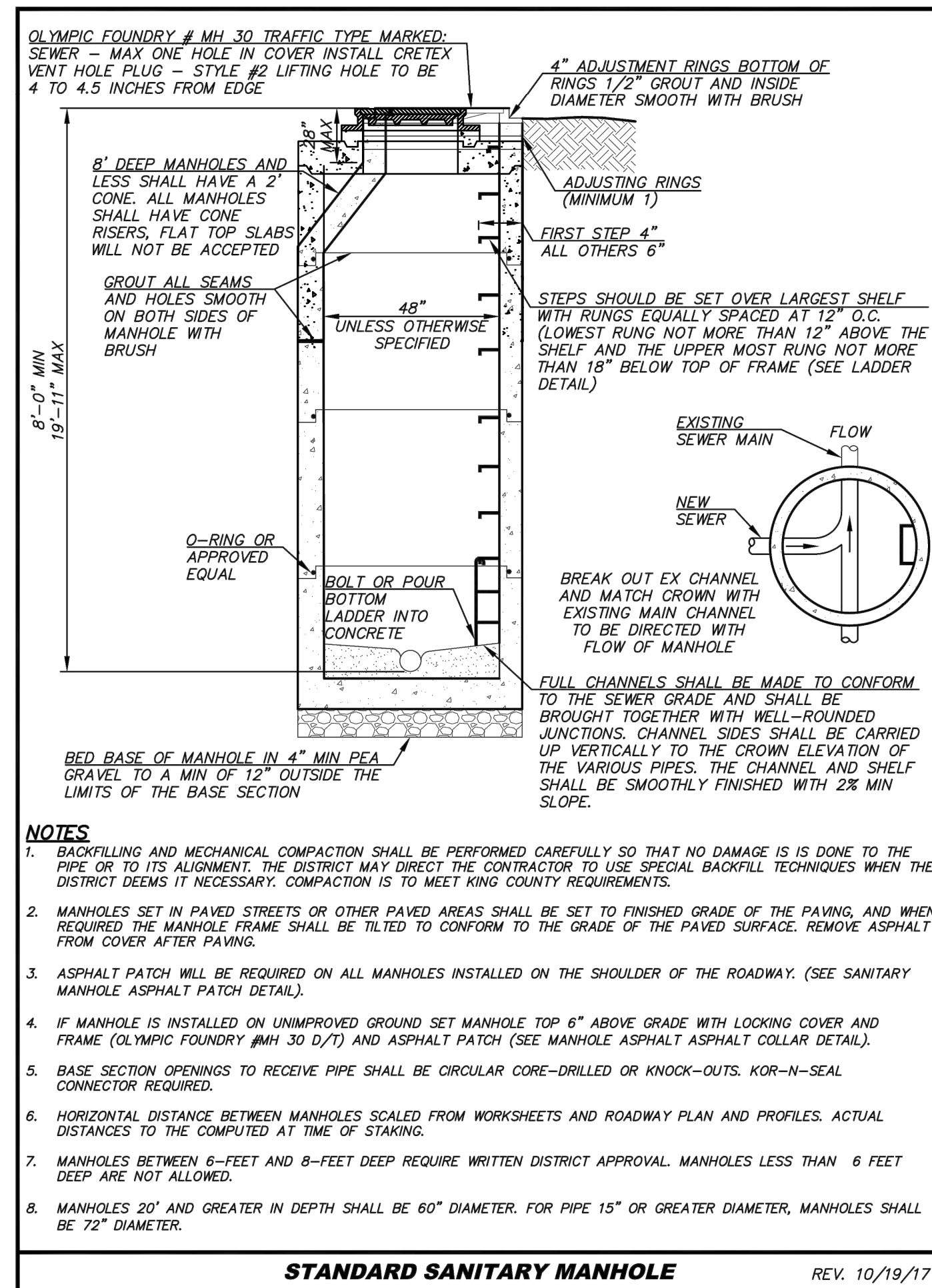
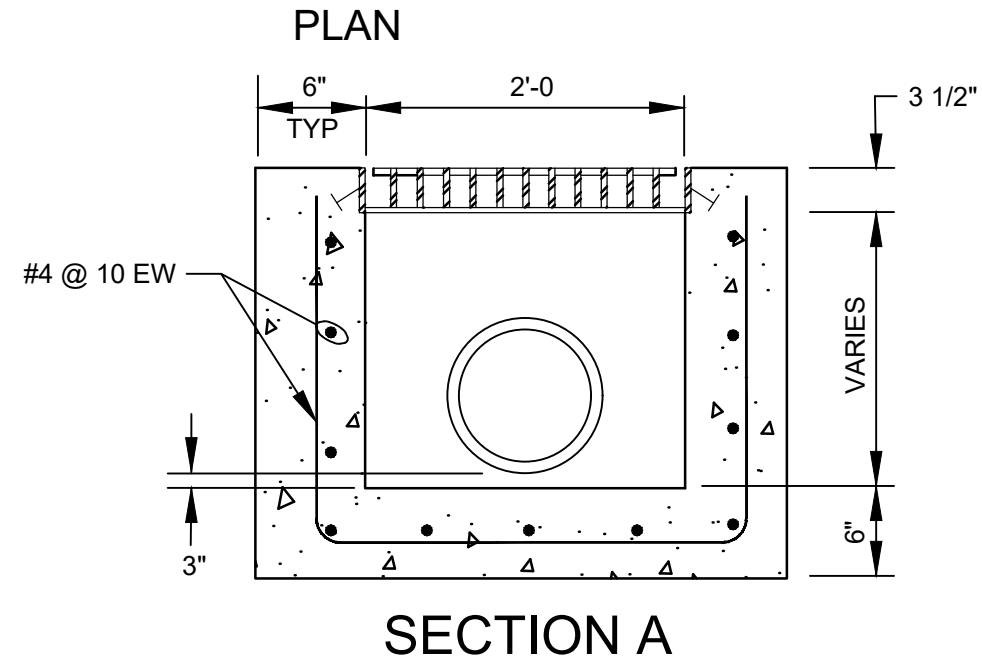
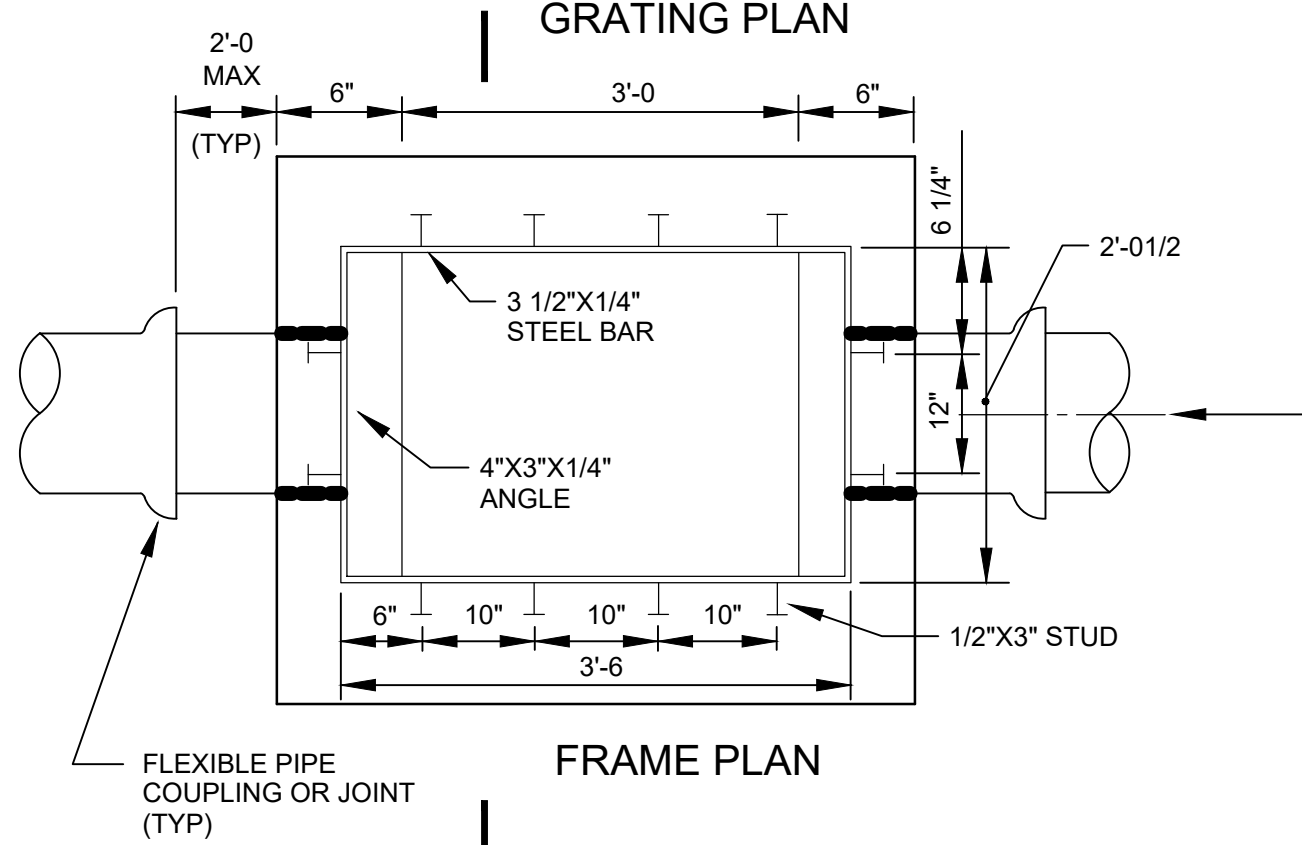
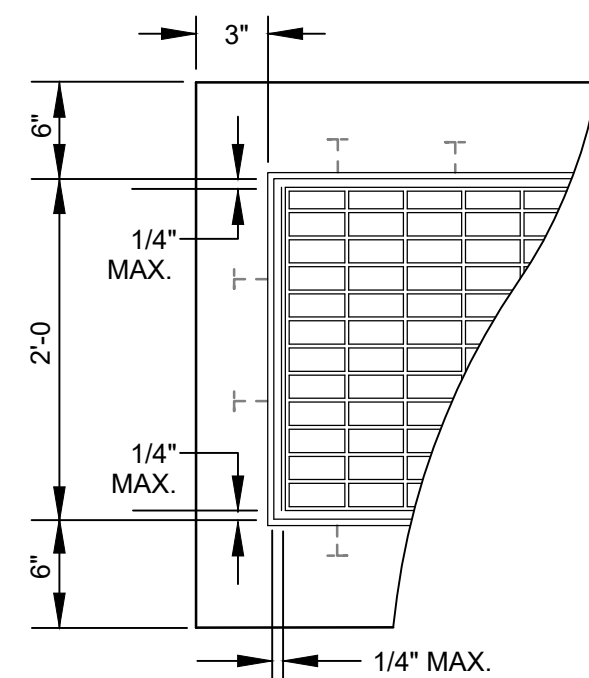
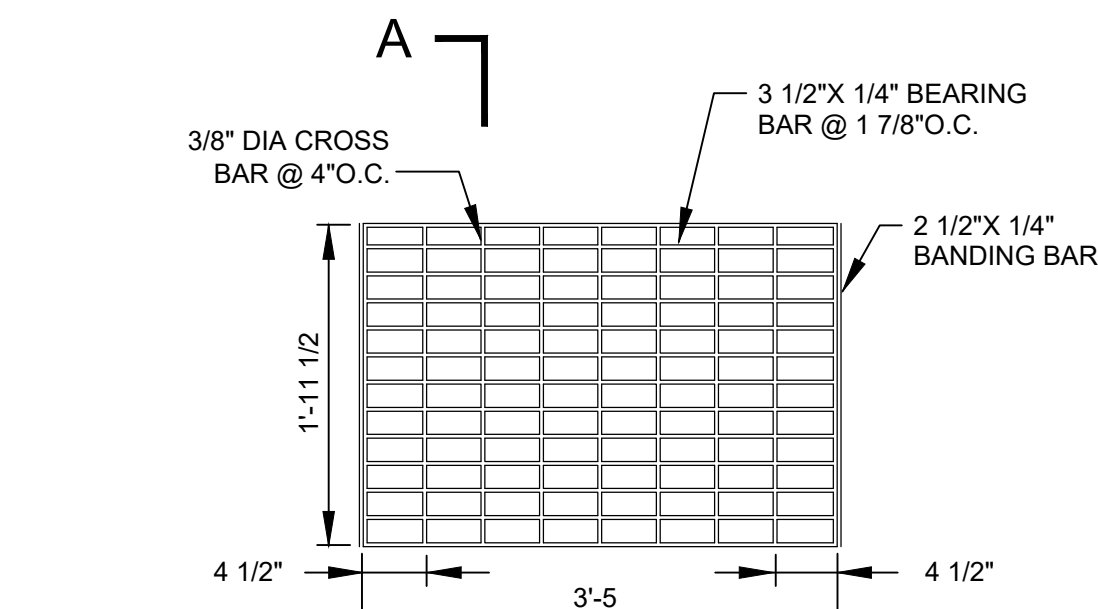
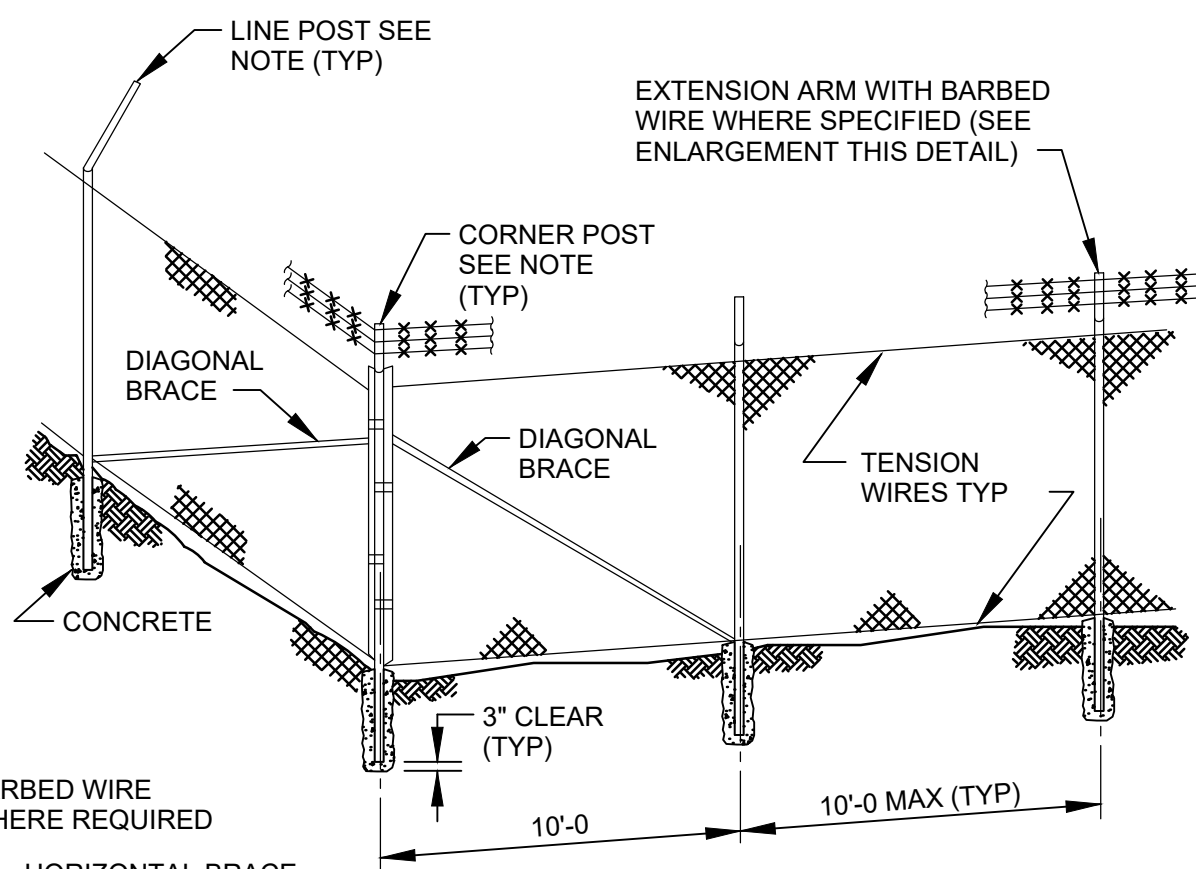
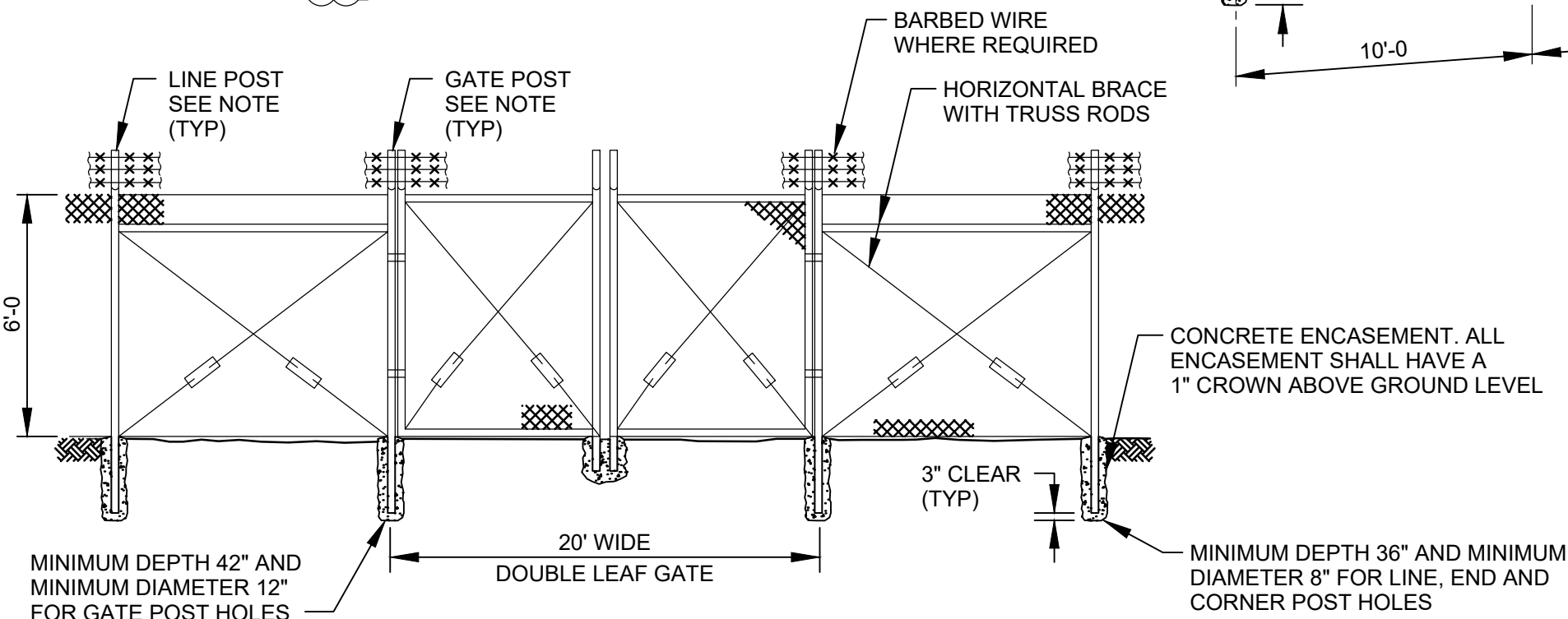
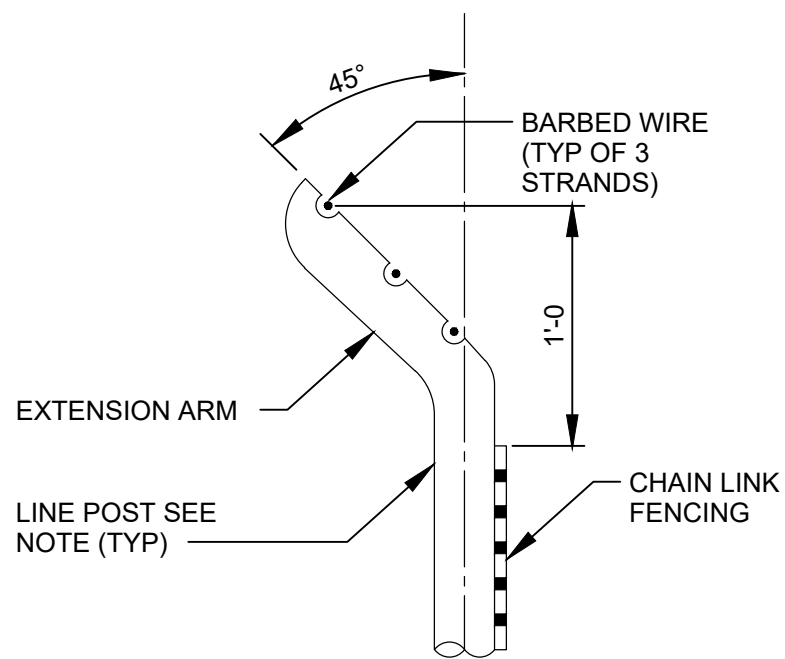
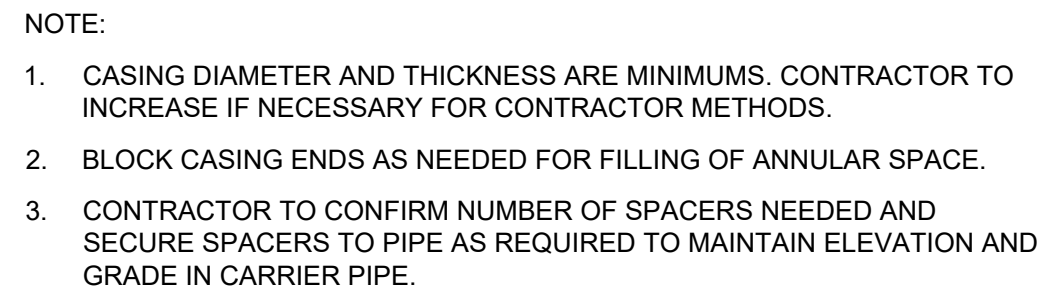
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AT FULL SIZE

DESIGNED: K.WEBER
DRAWN: K.TOLLE
CHECKED:
CHECKED:
APPROVED:
FILENAME C-00-8006.dwg
BC PROJECT NUMBER 155452
CLIENT PROJECT NUMBER

CIVIL

INFILTRATION POND
SECTIONS AND
DETAILS

DRAWING NUMBER
C-00-8006
SHEET NUMBER
OF



90% DESIGN



Sammamish
Plateau Water
PFAS Project

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.WEBER

DRAWN: K.TOLLE

CHECKED:

CHECKED:

APPROVED

FILENAME	C-00-8007.dwg
BC PROJECT NUMBER	155452
CLIENT PROJECT NUMBER	

CIVIL

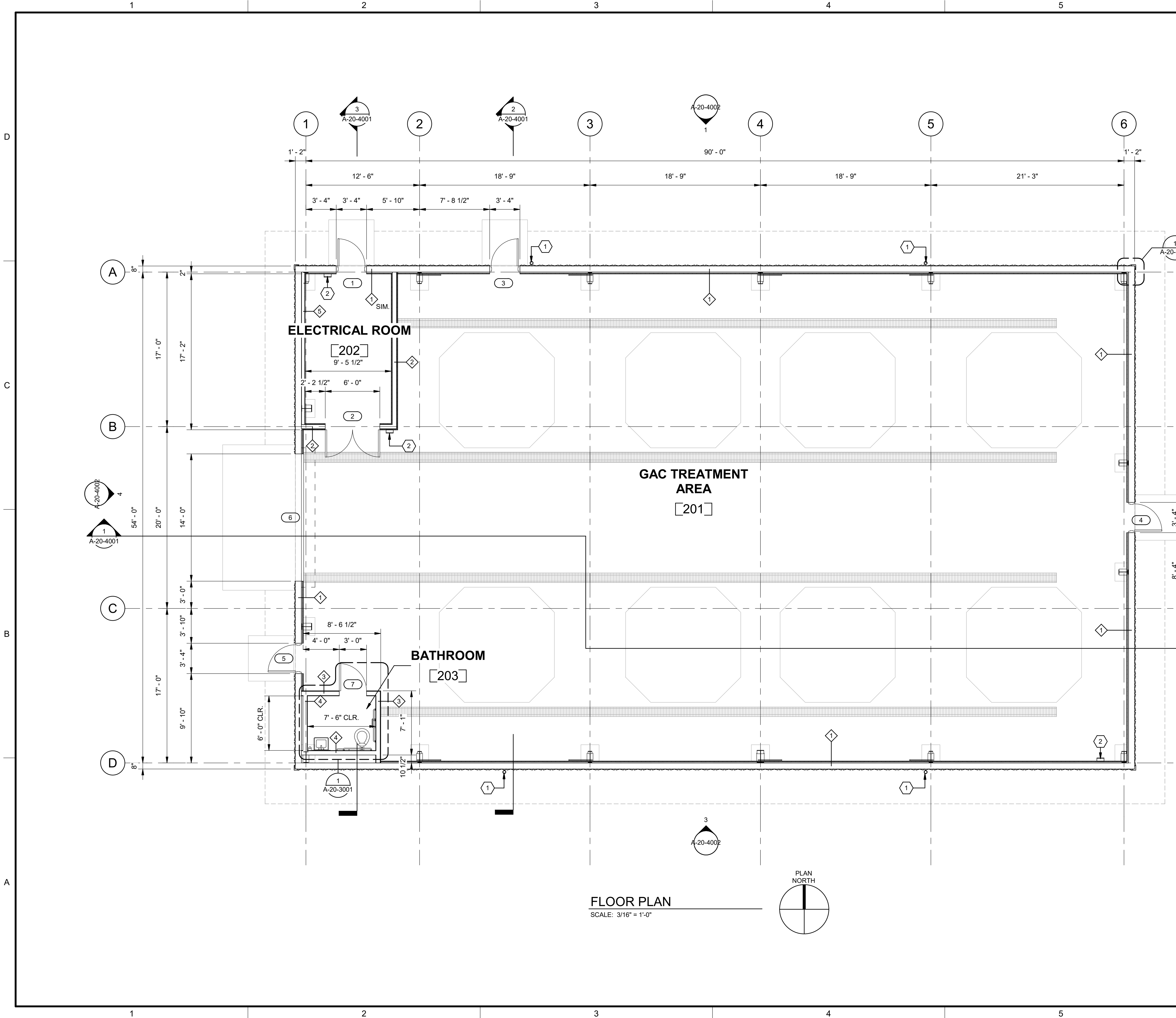
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C-00-8007

SHEET NUMBER
OF

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GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

2. ALL DIMENSIONS ARE TAKEN TO OUTER FACE OF WALL AND ROUGH OPENINGS.

KEYNOTES:

1 DOWNSPOUT

2 FIRE EXTINGUISHER

KEY:

1 WALL TAG (SEE A-20-3001)

101 DOOR TAG (SEE A-20-7001)



90% DESIGN



Sammamish Plateau
Water
PFAS Design

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS

DRAWN: R. RIETHMILLER

CHECKED: R. WAGNER

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER
155452

CLIENT PROJECT NUMBER

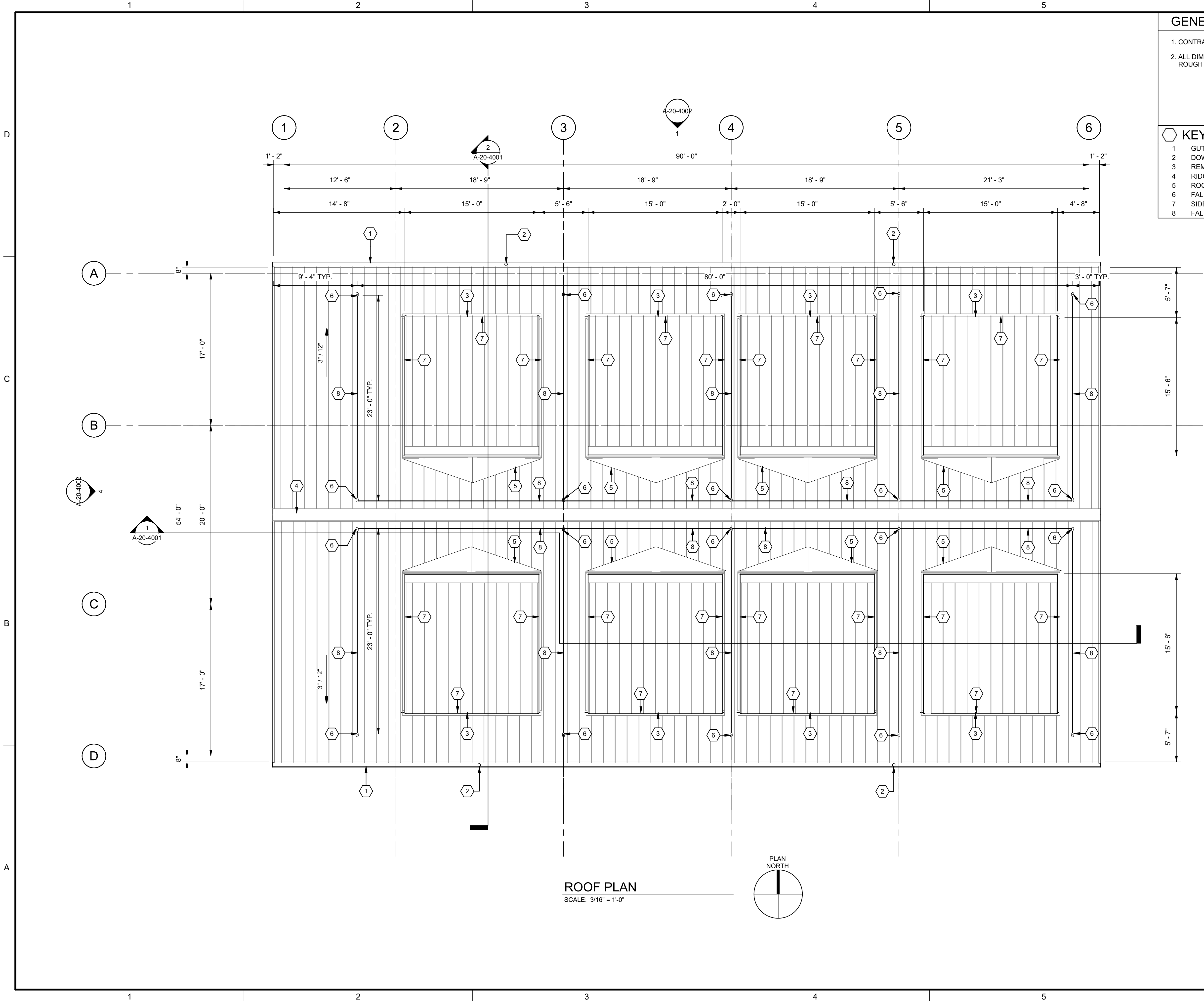
ARCHITECTURAL

**GAC BUILDING
FLOOR PLAN**

DRAWING NUMBER
A-20-1001

SHEET NUMBER
OF

Plot Date: 12/15/2020 4:34:21 PM Path: BIM 360://155452 - Sammamish Plateau PFAS Design/155452-A-20V19.rvt

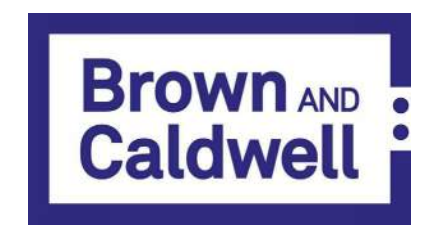


GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ALL DIMENSIONS ARE TAKEN TO OUTER FACE OF WALL AND ROUGH OPENINGS.

KEYNOTES:

- 1 GUTTER
- 2 DOWNSPOUT
- 3 REMOVABLE ROOF PANEL
- 4 RIDGE CAP
- 5 ROOF CRICKET, SEE DETAIL 4/A-20-8003
- 6 FALL RESTRAINT ANCHORS, SEE DETAIL 5/A-20-8003
- 7 SIDEWALL FLASHING, SEE DETAILS 1,2,3/A-20-8003
- 8 FALL RESTRAINT SYSTEM LIFELINE



90% DESIGN



Sammamish Plateau Water
PFAS Design

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS
DRAWN: R. RIETHMILLER
CHECKED: R. WAGNER
APPROVED:

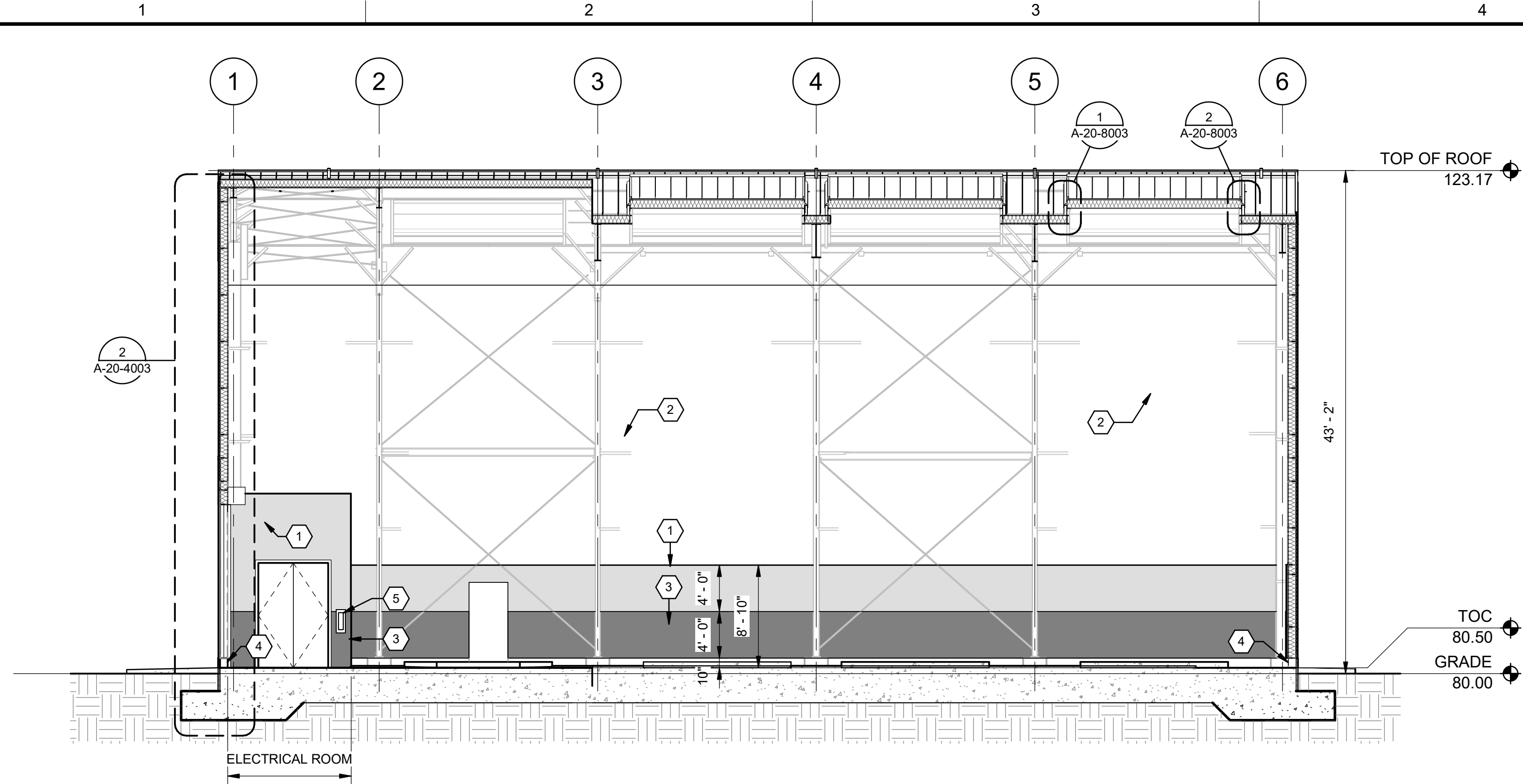
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BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

ARCHITECTURAL

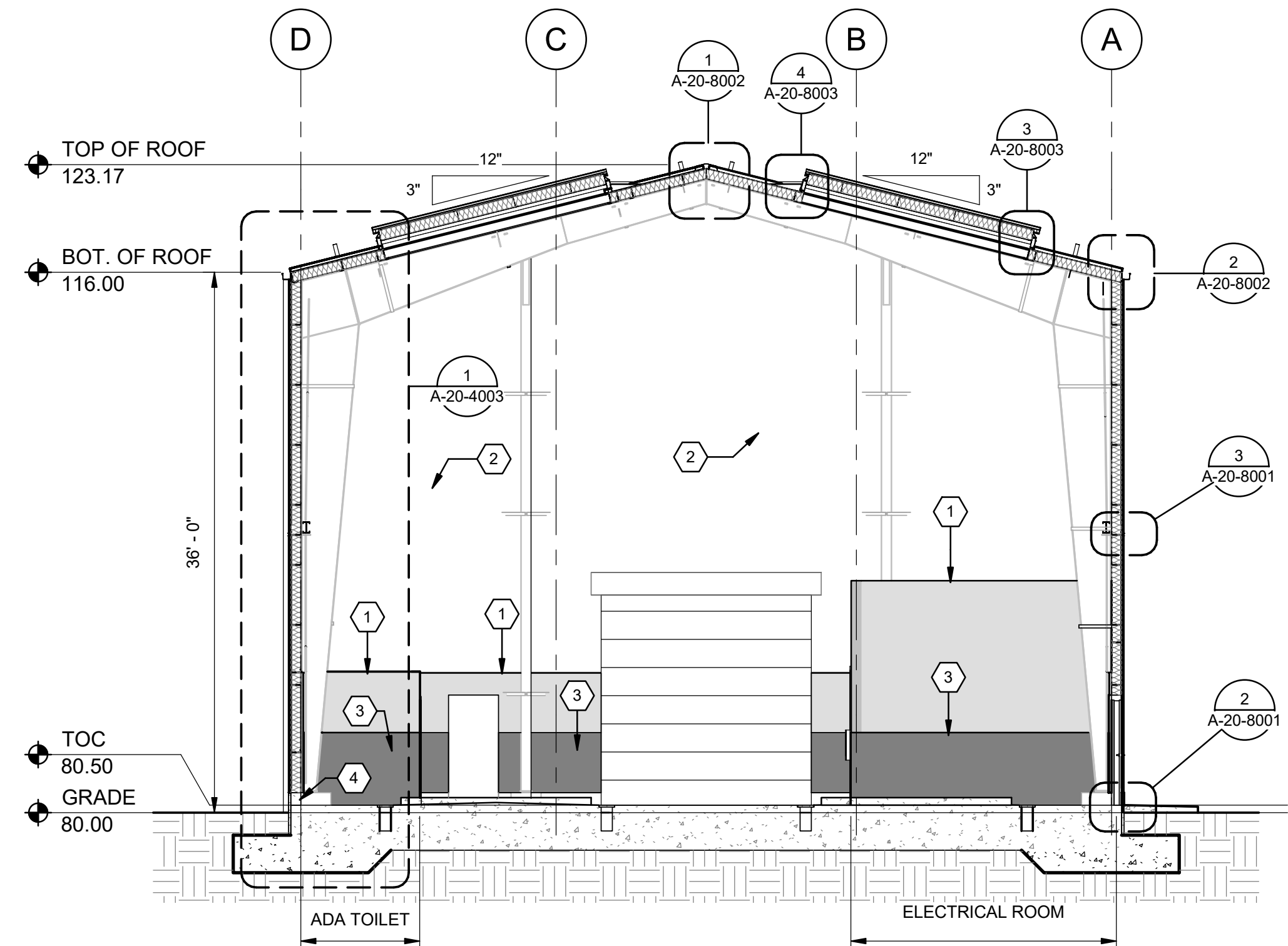
GAC BUILDING
ROOF PLAN

DRAWING NUMBER
A-20-1002
SHEET NUMBER
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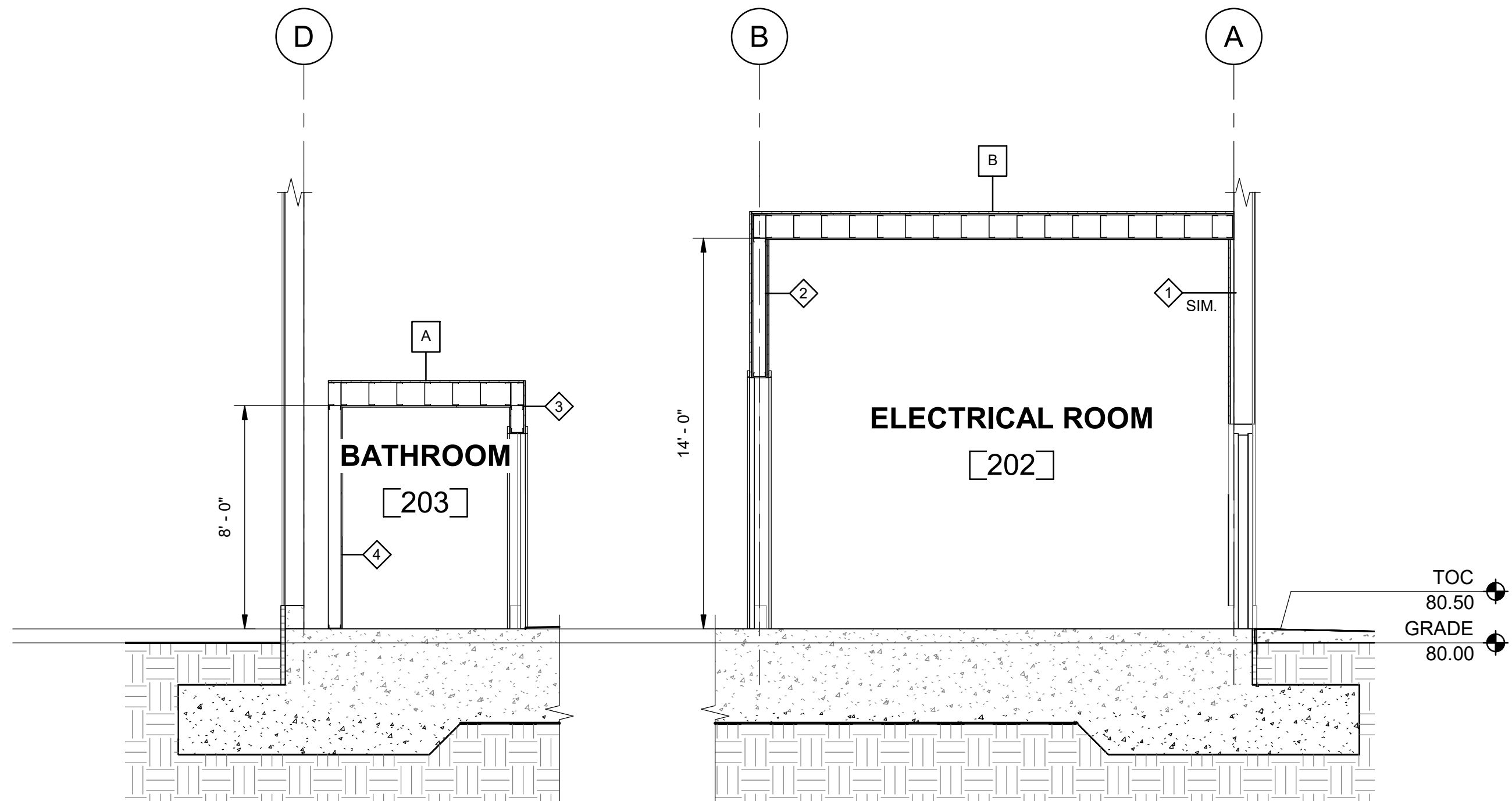
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1 LONGITUDINAL SECTION
A-20-1001 SCALE: 1/8" = 1'-0"



2 CROSS SECTION
A-20-1001 SCALE: 1/8" = 1'-0"



3 SECTION AT ADA TOILET AND ELECTRICAL ROOM
A-20-1001 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ALL DIMENSIONS ARE TAKEN TO OUTER FACE OF WALL AND ROUGH OPENINGS.

KEYNOTES:

- 1 PLYWOOD
- 2 VINYL CLAD INSULATION
- 3 FIBERGLASS REINFORCED PLASTIC WALL PANEL
- 4 CONCRETE CURB
- 5 FIRE EXTINGUISHER

HATCH KEY:

- PLYWOOD
- FRWP

KEY:

- WALL TAG (SEE A-20-3001)
- CEILING TAG (SEE A-20-3001)



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Sammamish Plateau
Water
PFAS Design

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS
DRAWN: R. RIETHMILLER
CHECKED: R. WAGNER
APPROVED:

FILE NAME

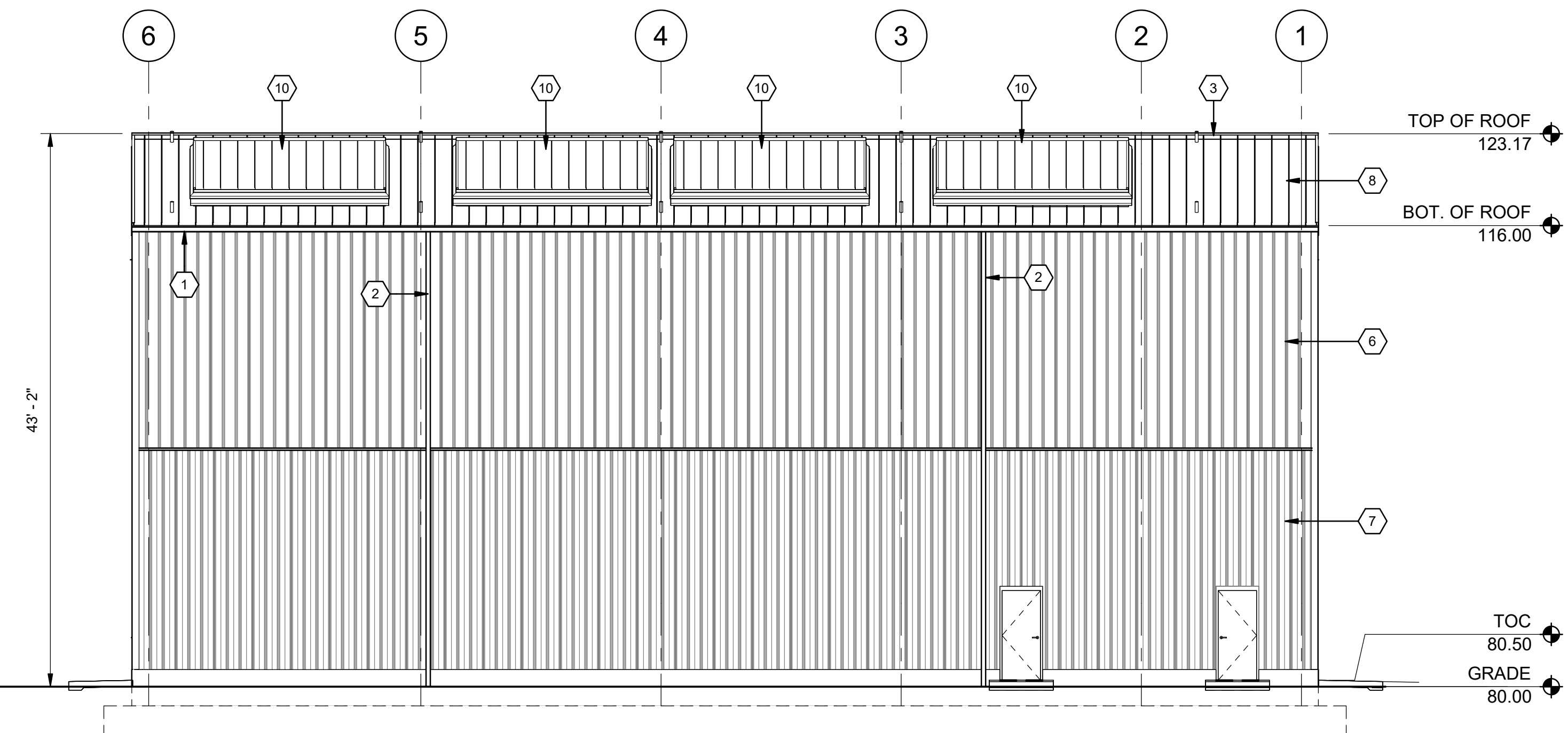
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155452
CLIENT PROJECT NUMBER

ARCHITECTURAL

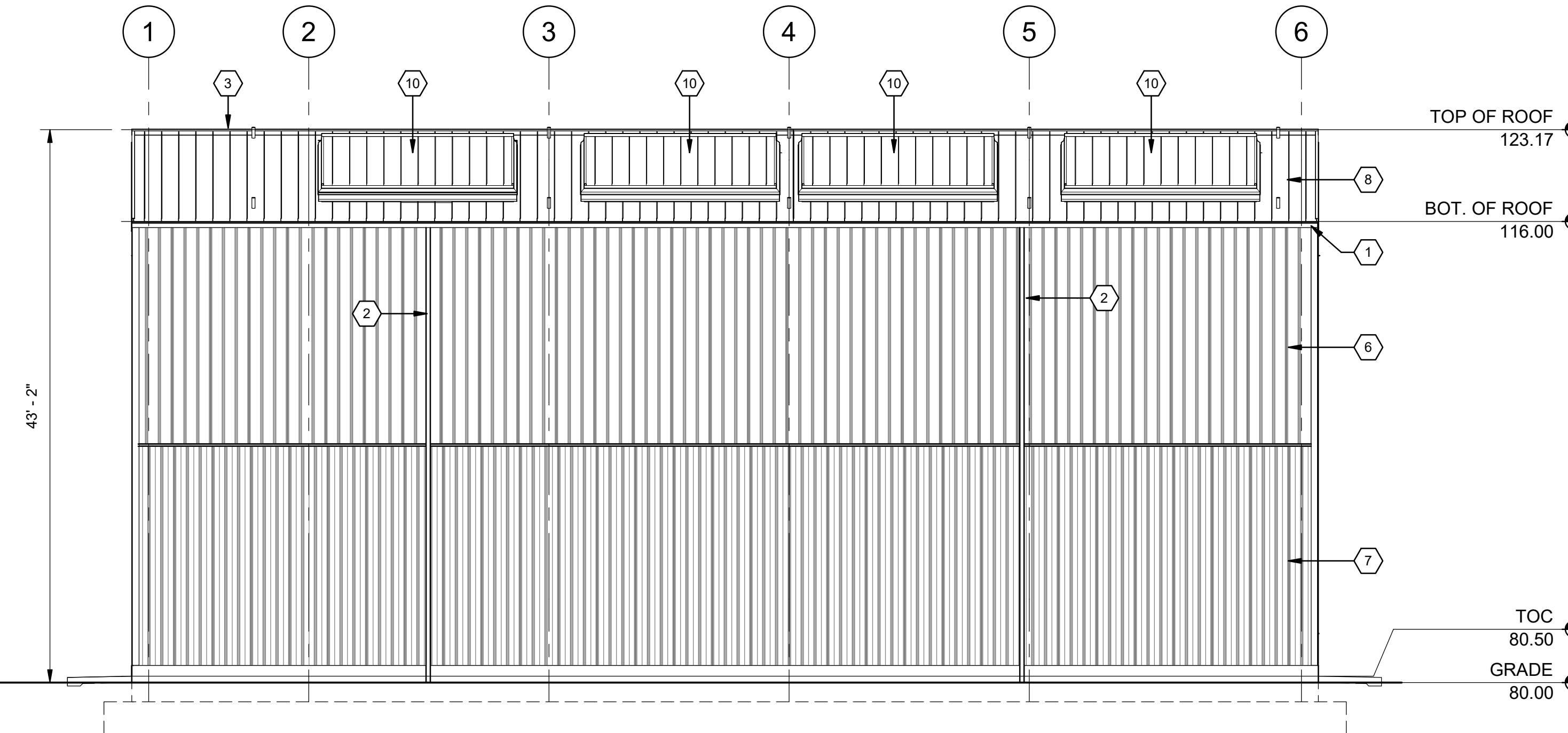
GAC BUILDING
BUILDING SECTIONS
AND INTERIOR
ELEVATIONS

DRAWING NUMBER
A-20-4001
SHEET NUMBER
OF

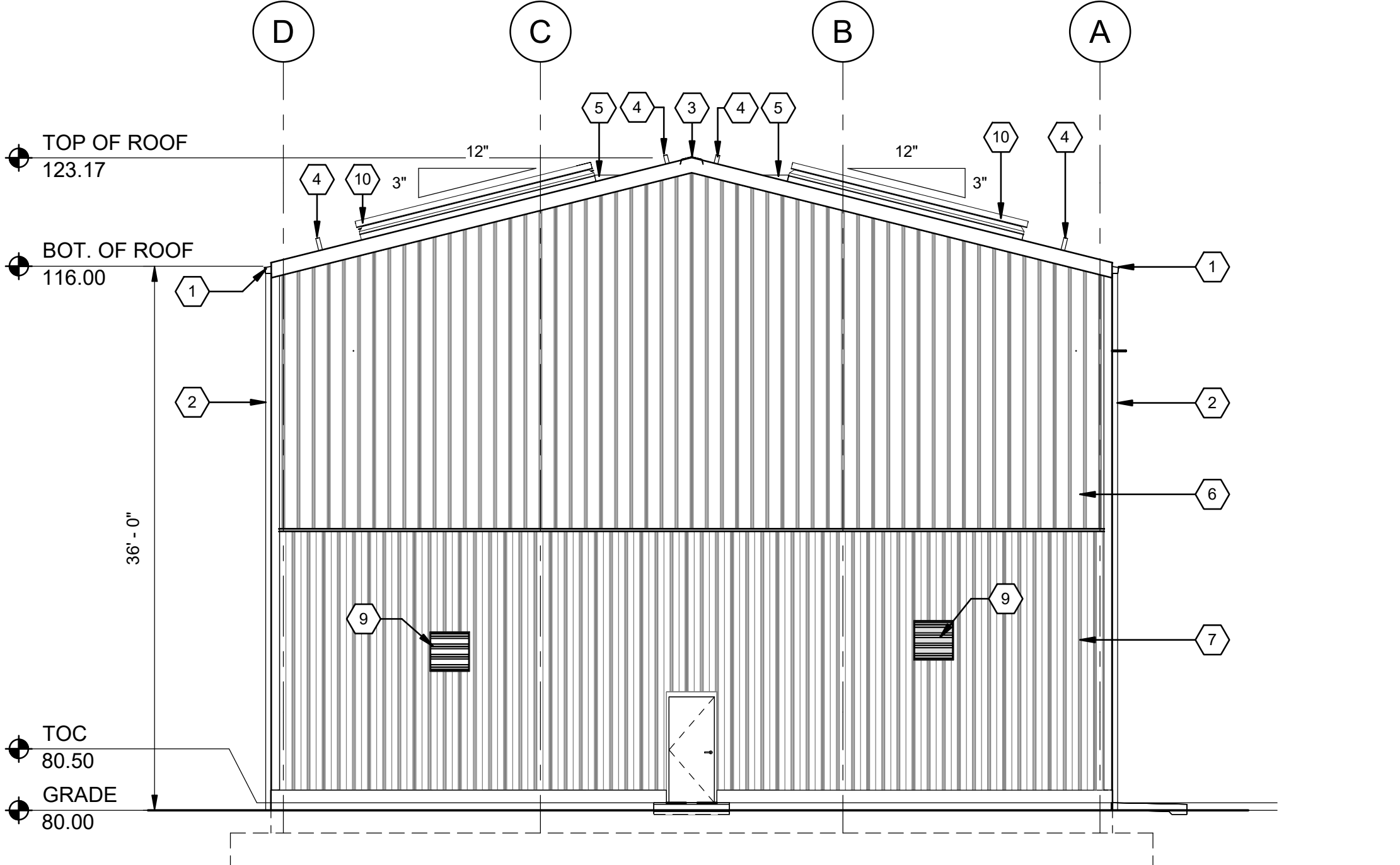
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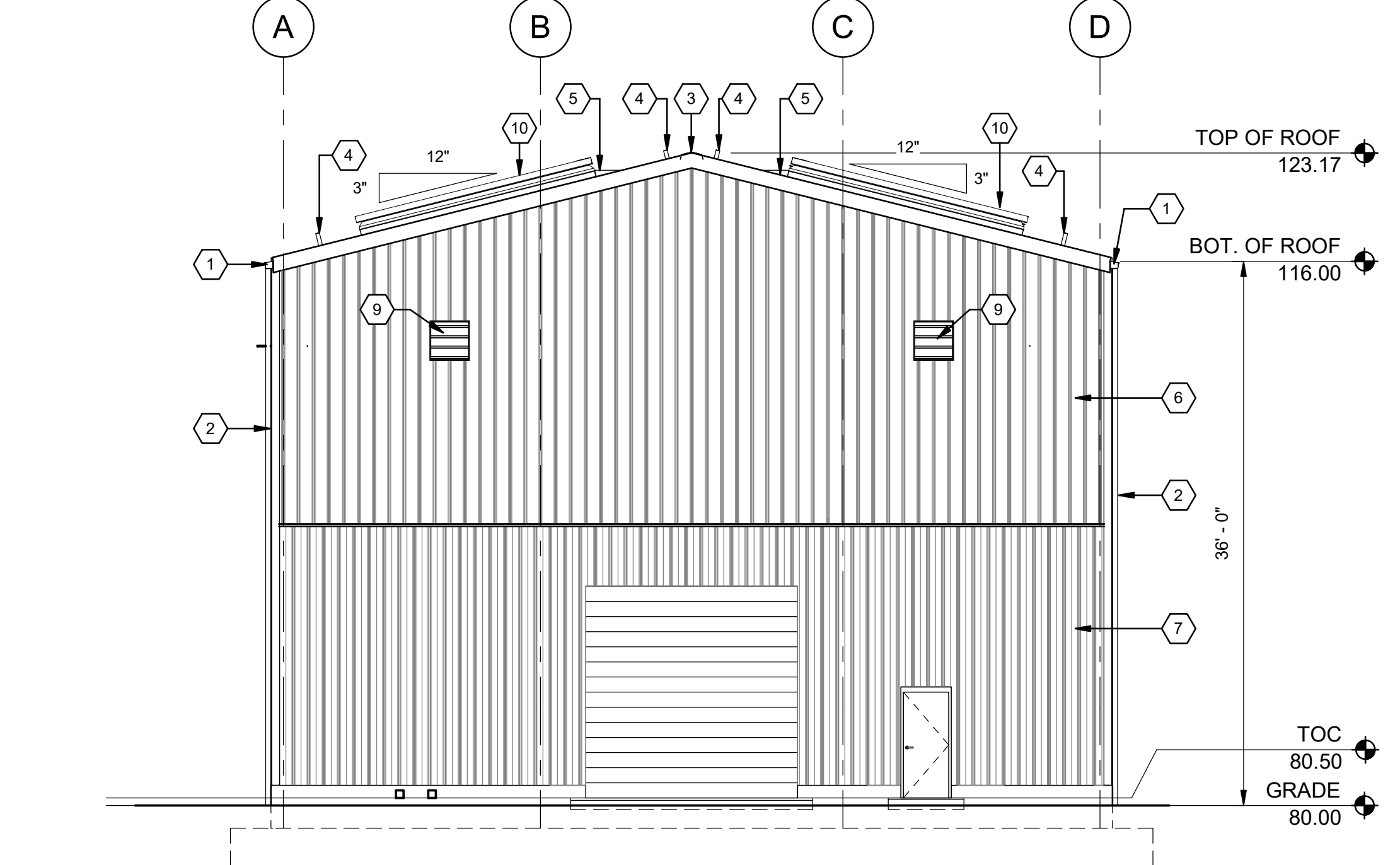
1 NORTH ELEVATION
A-20-1001 SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
A-20-1001 SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
A-20-1001 SCALE: 1/8" = 1'-0"



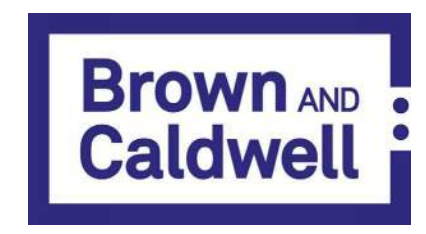
4 WEST ELEVATION
A-20-1001 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

KEYNOTES:

- 1 GUTTER
- 2 DOWNSPOUT
- 3 RIDGE CAP
- 4 FALL RESTRAINT ANCHORS, SEE DETAIL 5/A-20-8003
- 5 ROOF CRICKET, SEE DETAIL 4/A-20-8003
- 6 VERTICAL METAL SIDING 'TYPE A'
- 7 VERTICAL METAL SIDING 'TYPE B'
- 8 STANDING SEAM METAL ROOFING
- 9 LOUVER, SEE MECHANICAL
- 10 REMOVABLE ROOF PANEL



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Sammamish Plateau
Water
PFAS Design

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS
DRAWN: R. RIETHMILLER
CHECKED: R. WAGNER
APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

ARCHITECTURAL

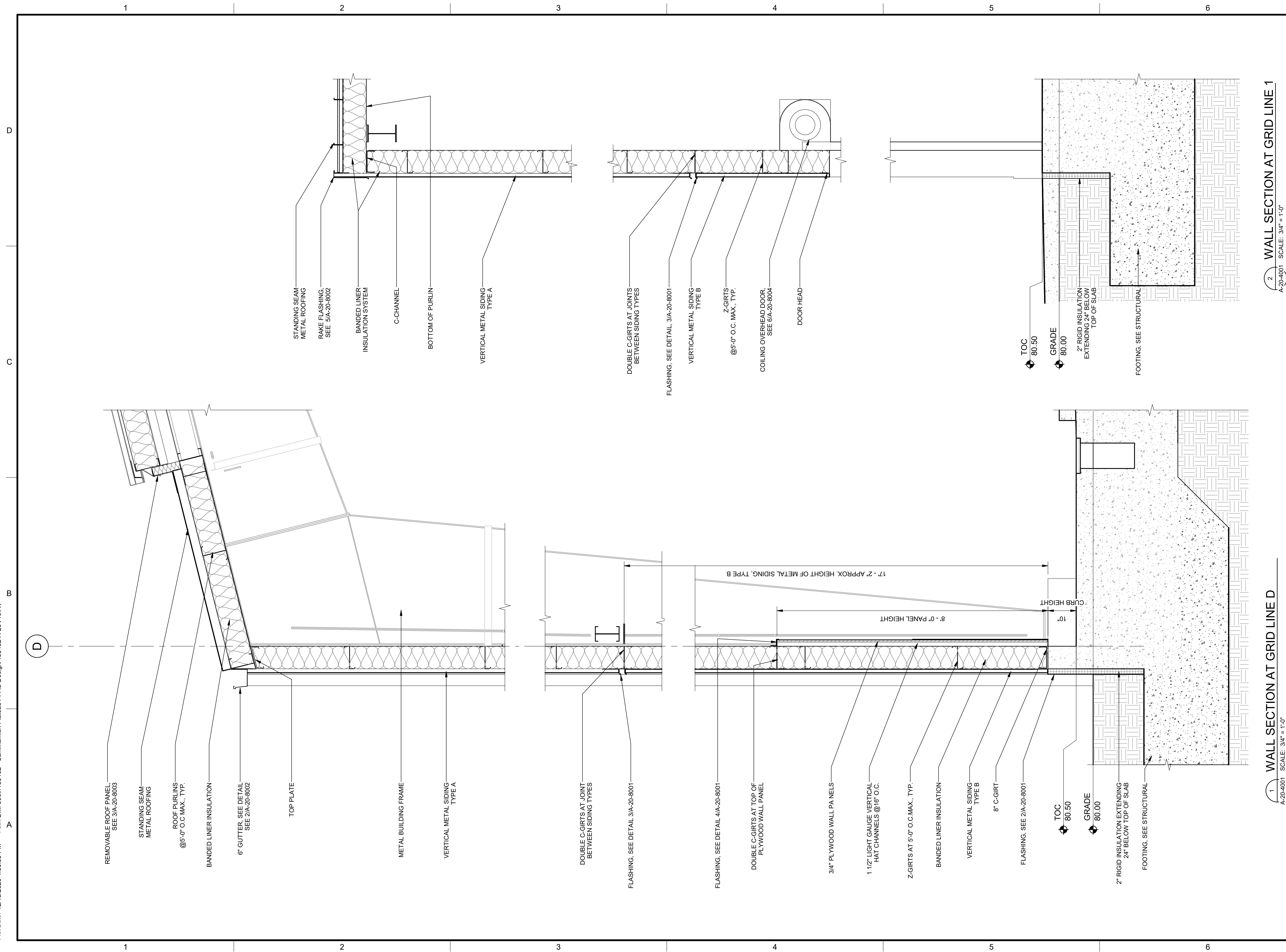
GAC BUILDING
EXTERIOR
ELEVATIONS

DRAWING NUMBER

A-20-4002

SHEET NUMBER

OF



2 WALL SECTION AT GRID LINE 1
A-20-4001 SCALE: 3/4" = 1'-0"

1 WALL SECTION AT GRID LINE D
A-20-4001 SCALE: 3/4" = 1'-0"



WAGNER
ARCHITECTS
••PLANNERS

90% DESIGN



Sammamish Plateau Water PFAS Design

REVISIONS

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS

DRAWN: R. RIETHMILLER

CHECKED: R. WAGNER

APPROVED: Approver

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

ARCHITECTURAL

GAC BUILDING WALL SECTIONS

DRAWING NUMBER

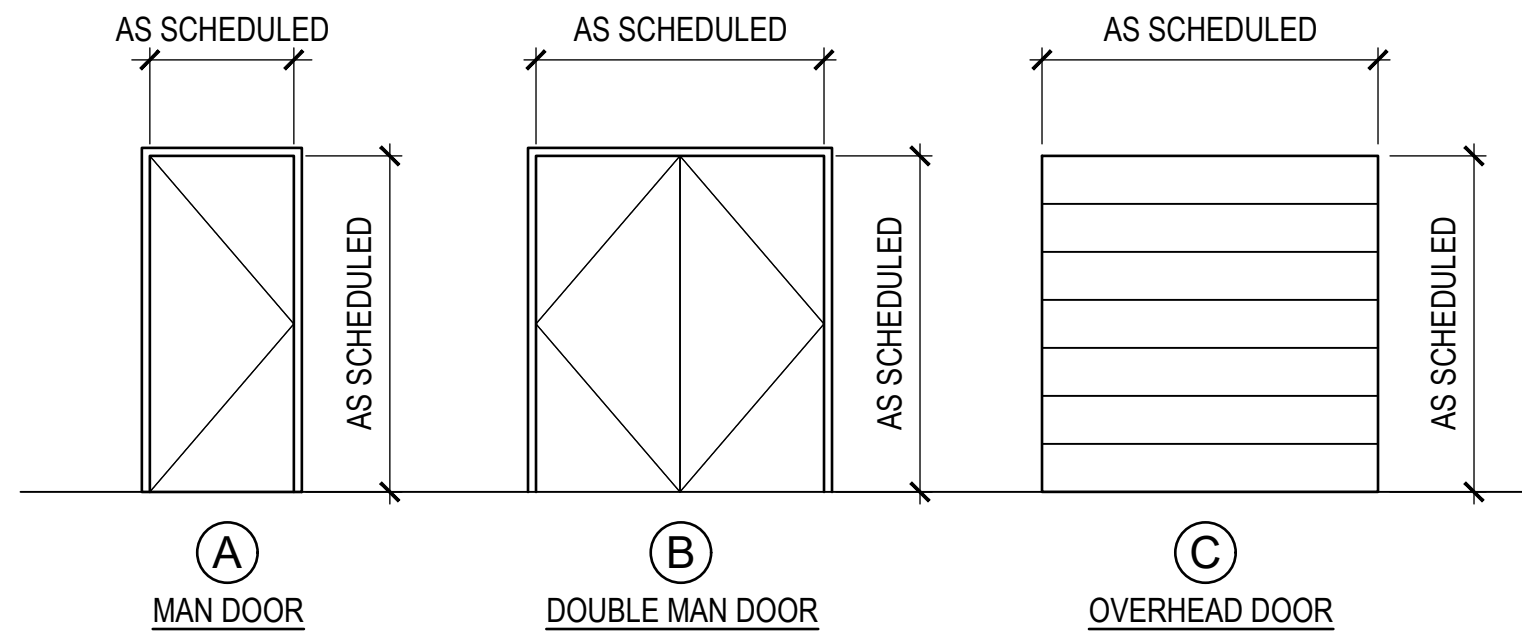
A-20-4003

SHEET NUMBER
OF

FINISH SCHEDULE																			
ROOM #	ROOM NAME	FLOOR		WALLS												CEILING			REMARKS
				NORTH			EAST			SOUTH			WEST						
		MAT	FIN	MAT	FIN	WAINSCOT	MAT	FIN	WAINSCOT	MAT	FIN	WAINSCOT	MAT	FIN	WAINSCOT	MAT	FIN	HEIGHT	
201	GAC TREATMENT AREA	CONC	PTD	PLY	PTD	FRWP	PLY	PTD	FRWP	PLY	PTD	FRWP	PLY	PTD	FRWP	VINYL			PLYWOOD 8' HT, FRWP 4' HT
202	ELECTRICAL ROOM	CONC	PTD	PLY	PTD	-	PLY	PTD	-	PLY	PTD	-	PLY	PTD	-	GWB		14'-0"	
203	BATHROOM	CONC	PTD	GWB	PTD	-	GWB	PTD	-	GWB	PTD	-	GWB	PTD	-	GWB		8'-0"	
Abbreviations:																			
ADA	Accessibility Guidelines		FIN	Finish			MAT	Material											
CLR	Clear		FRWP	Fiberglass Reinforced Wall Panel				PLY			Plywood								
CONC	Concrete		GWB	Gypsum Wall Board			PTD	Painted											



SIGNAGE SCHEDULE					
ROOM #	ROOM NAME	AT DOOR	SIGN TYPE	MESSAGE	NOTES
202	ELECTRICAL ROOM	1	A	ELECTRICAL ROOM	
202	ELECTRICAL ROOM	2	A	ELECTRICAL ROOM	
202	ELECTRICAL ROOM		A	NO STORAGE ON CEILING PLATFORM	BRAILLE OMITTED, LOCATE AT OWNER'S DIRECTION
203	BATHROOM	7	B	RESTROOM	
203	BATHROOM		A	NO STORAGE ON CEILING PLATFORM	BRAILLE OMITTED, LOCATE AT OWNER'S DIRECTION



90% DESIGN



Sammamish
Plateau Water
PFAS Project

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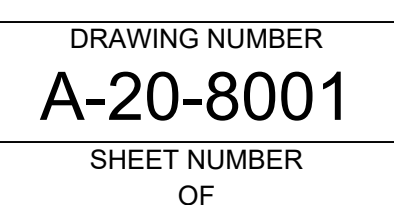
LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS
DRAWN: A. PURNAPUSPITA
CHECKED: R. WAGNER
CHECKED: #####
APPROVED: #####
FILENAME
A-20-7001 SCHEDULES.D
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

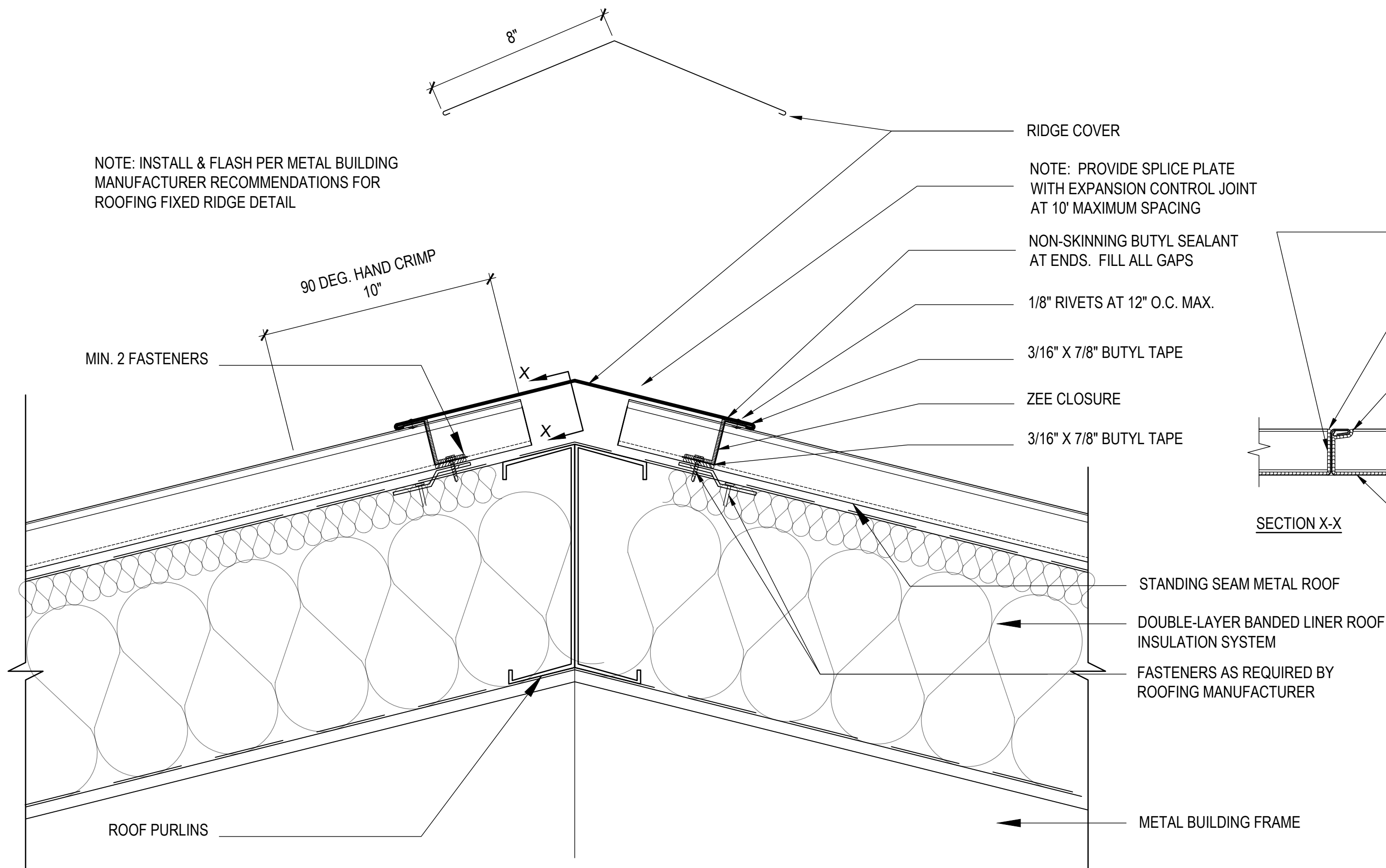
ARCHITECTURAL

GAC BUILDING SCHEDULES

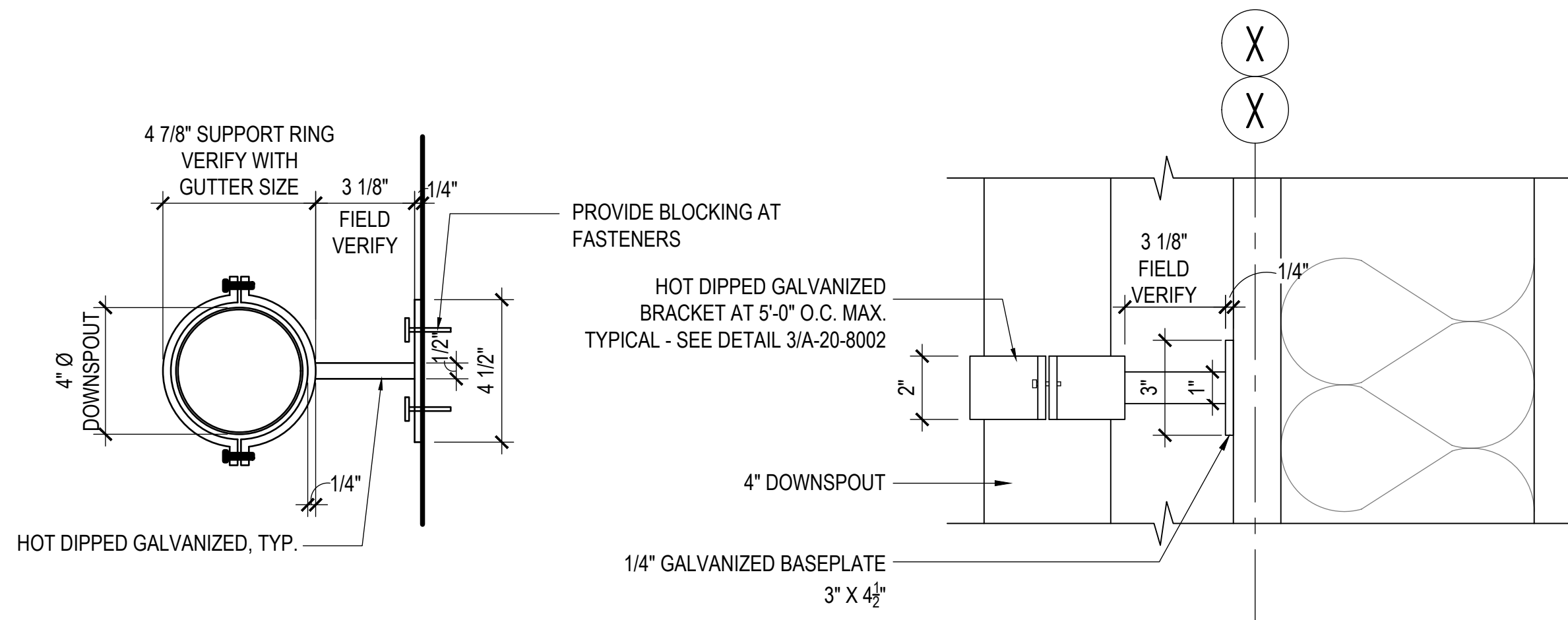
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SHEET NUMBER
OF



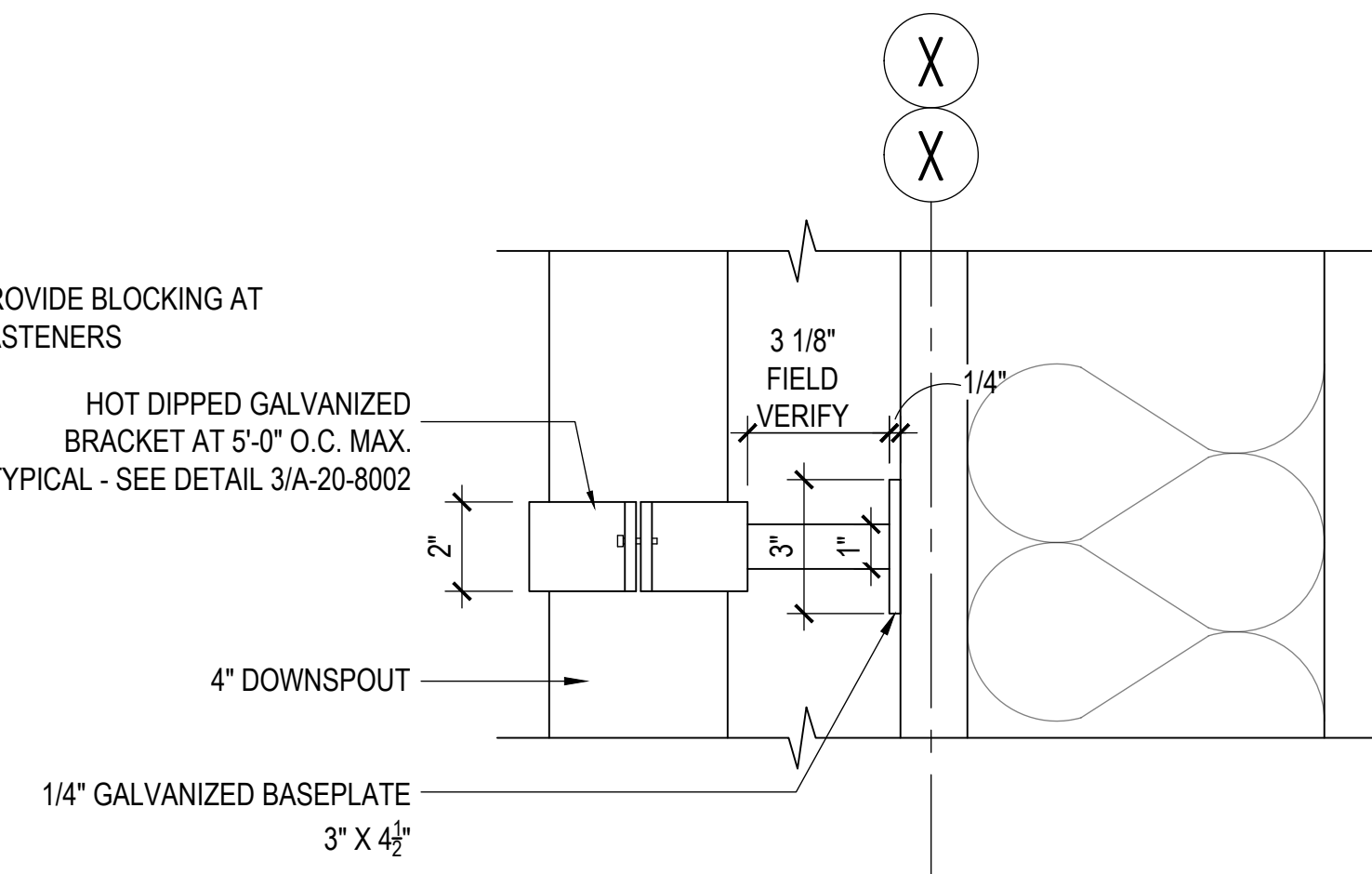
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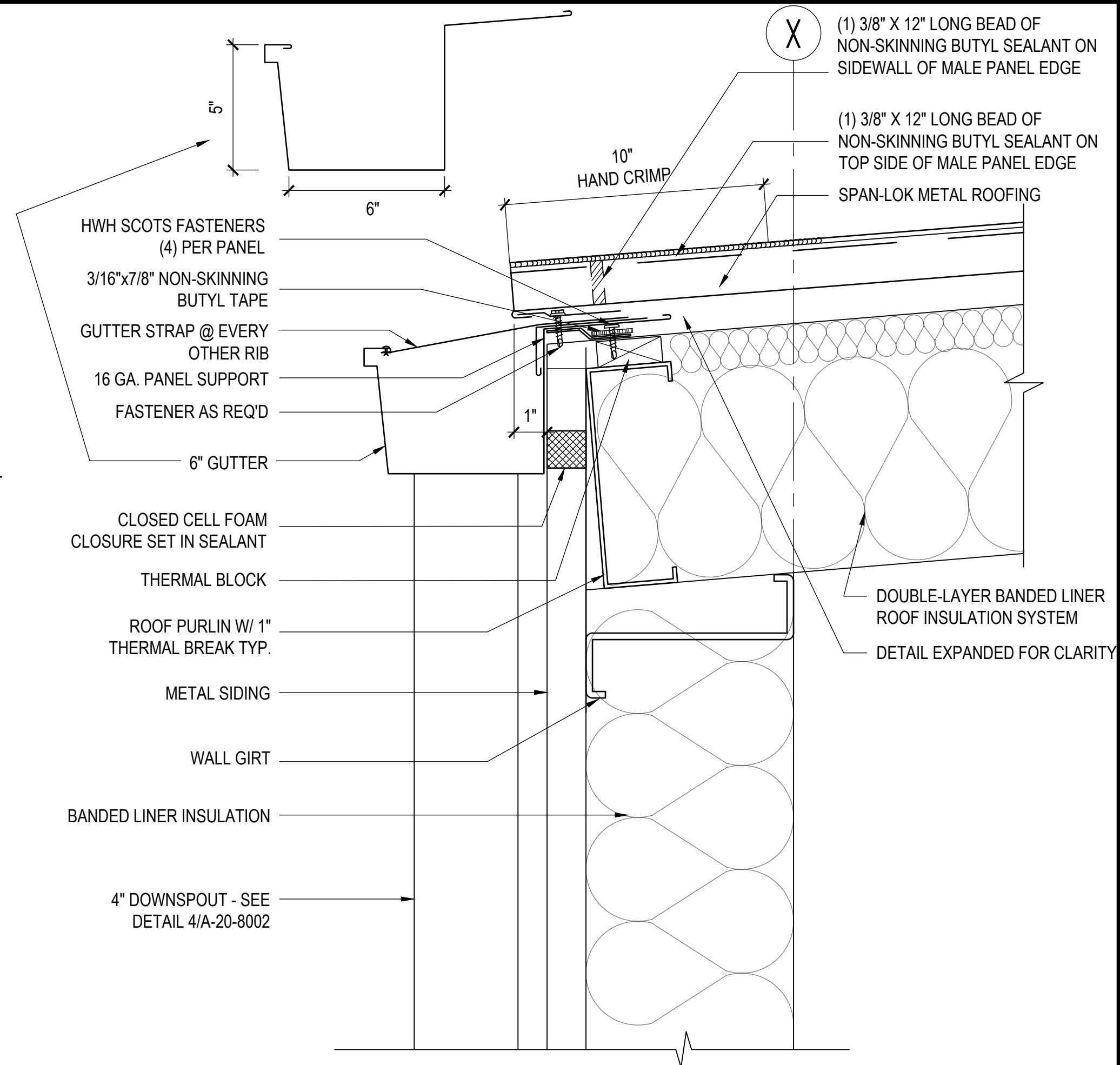
1 RIDGE DETAIL
SCALE: 3" = 1'-0"



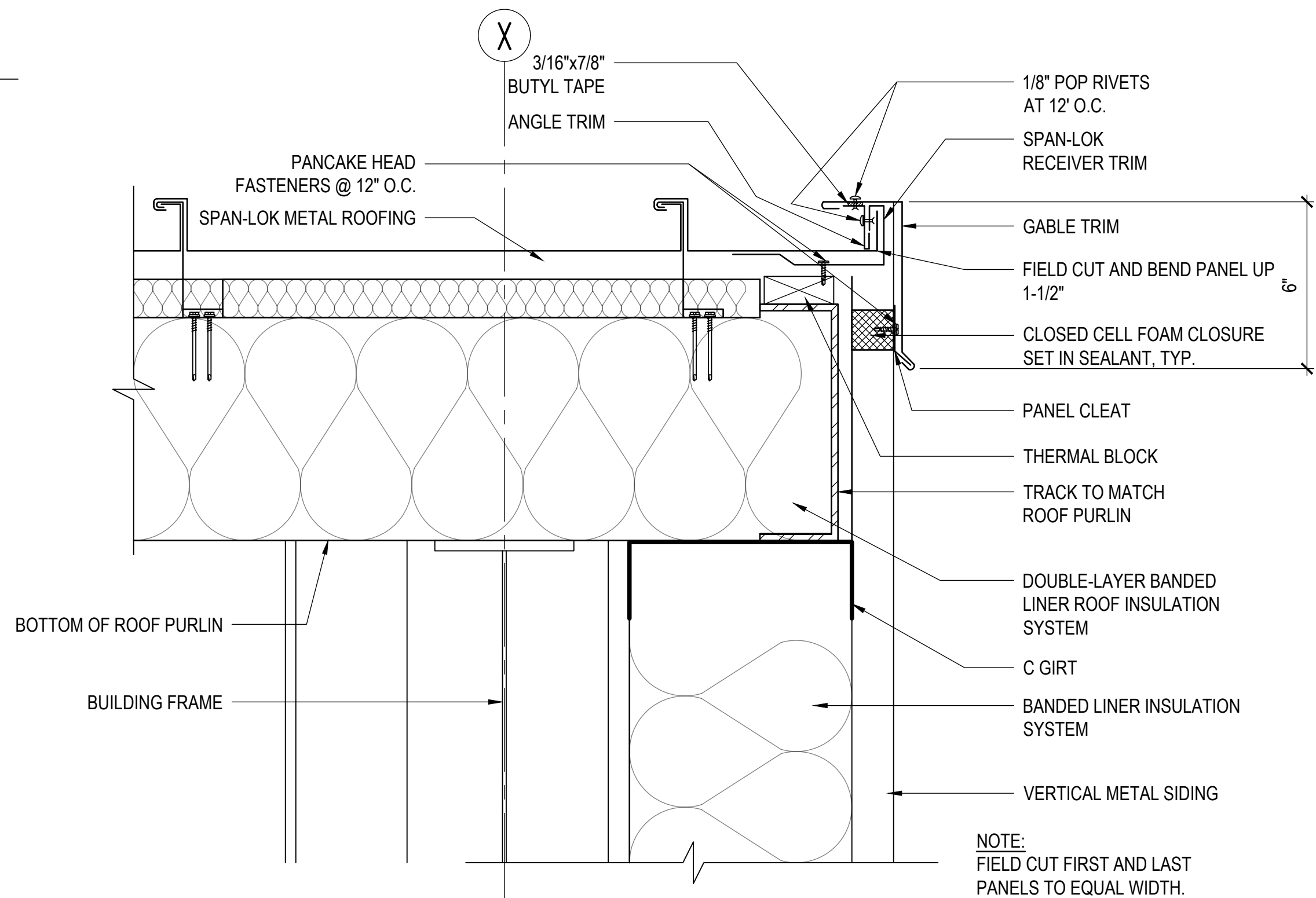
3 4" DOWNSPOUT BRACKET DETAIL
SCALE: 3" = 1'-0"



4 4" DOWNSPOUT BRACKET DETAIL
SCALE: 3" = 1'-0"



2 GUTTER DETAIL
SCALE: 3" = 1'-0"



5 RAKE DETAIL
SCALE: 3" = 1'-0"

Brown AND Caldwell

WAGNER
ARCHITECTS
PLANNERS

90% DESIGN



Sammamish
Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: G. SOMERS
DRAWN: A. PURNAPUSPITA
CHECKED: R. WAGNER
APPROVED: #####
FILENAME
A-20-8002 ROOF DETAILS.DWG
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

ARCHITECTURAL

GAC BUILDING
ROOF DETAILS

DRAWING NUMBER
A-20-8002
SHEET NUMBER
OF

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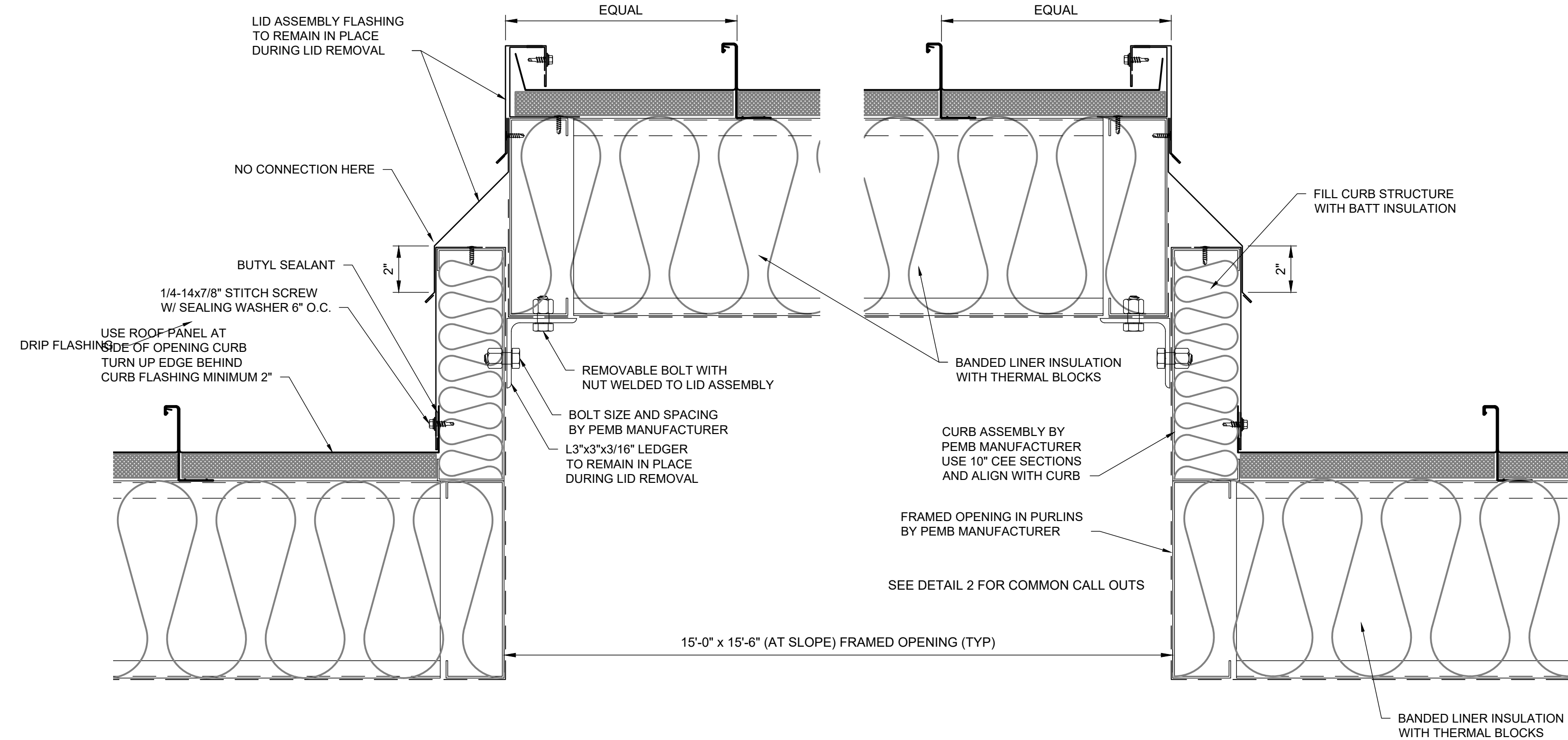
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D

C

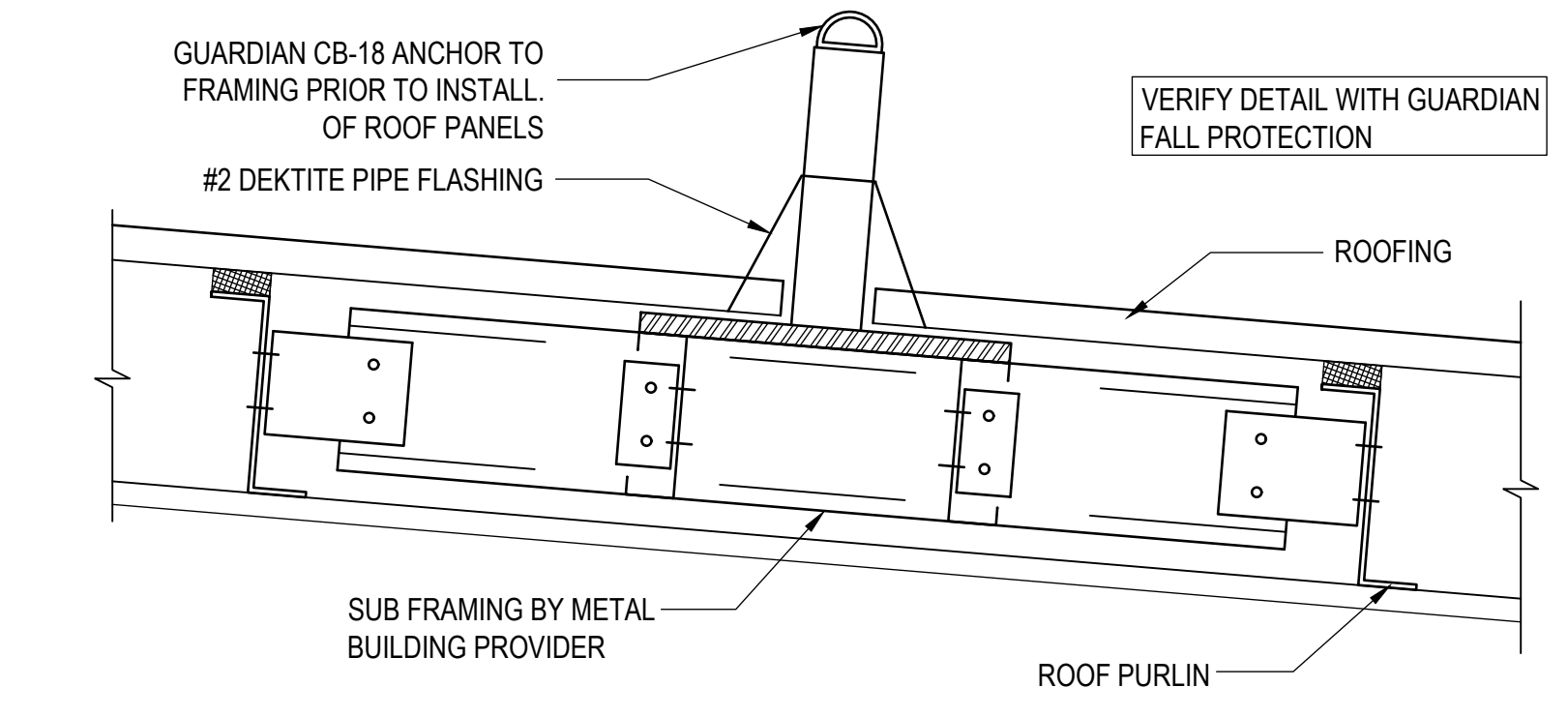
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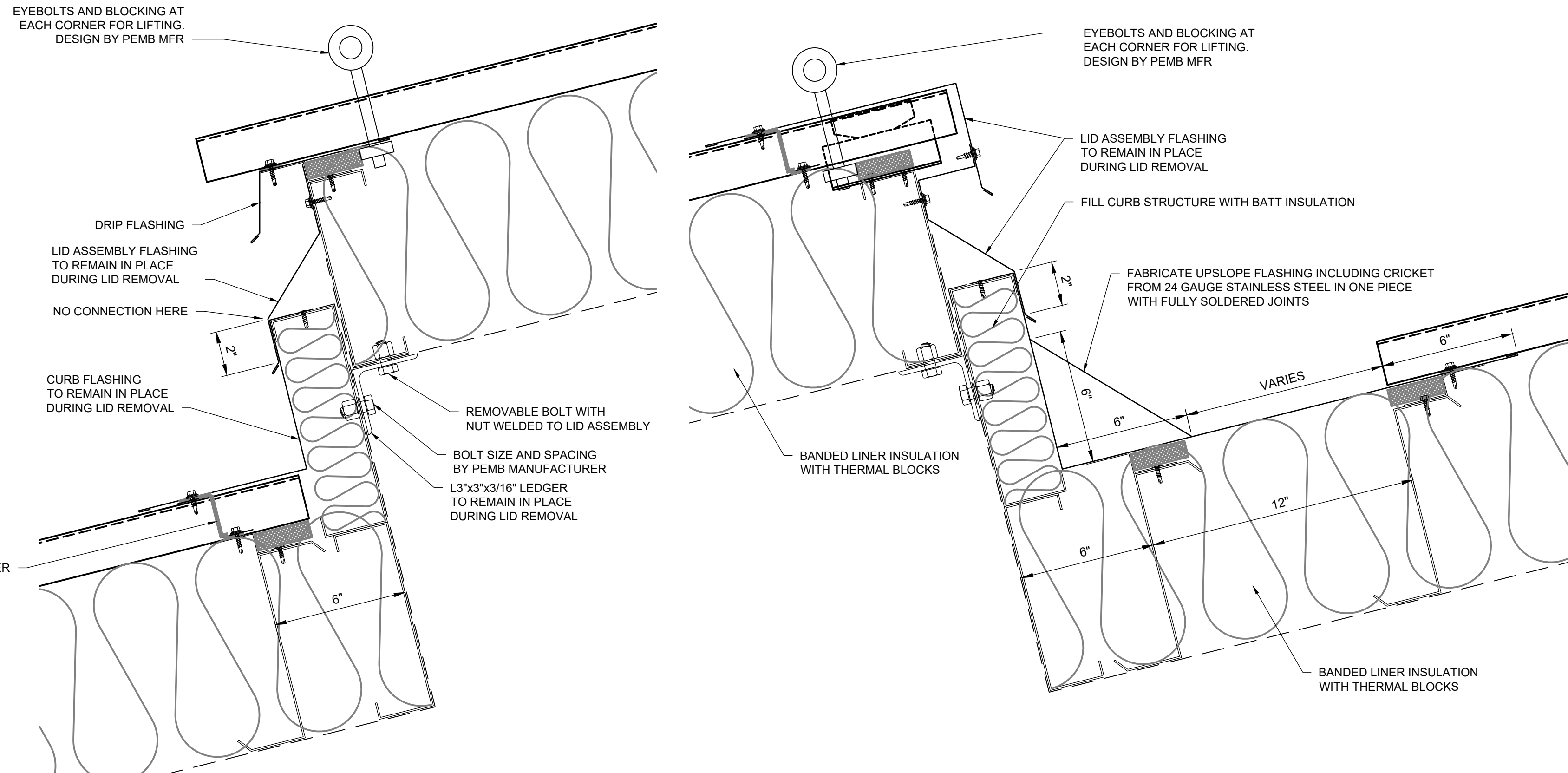


1 ROOF OPENING RAKE SIDE 1
SCALE: 3" = 1'-0"

2 ROOF OPENING RAKE SIDE 2
SCALE: 3" = 1'-0"

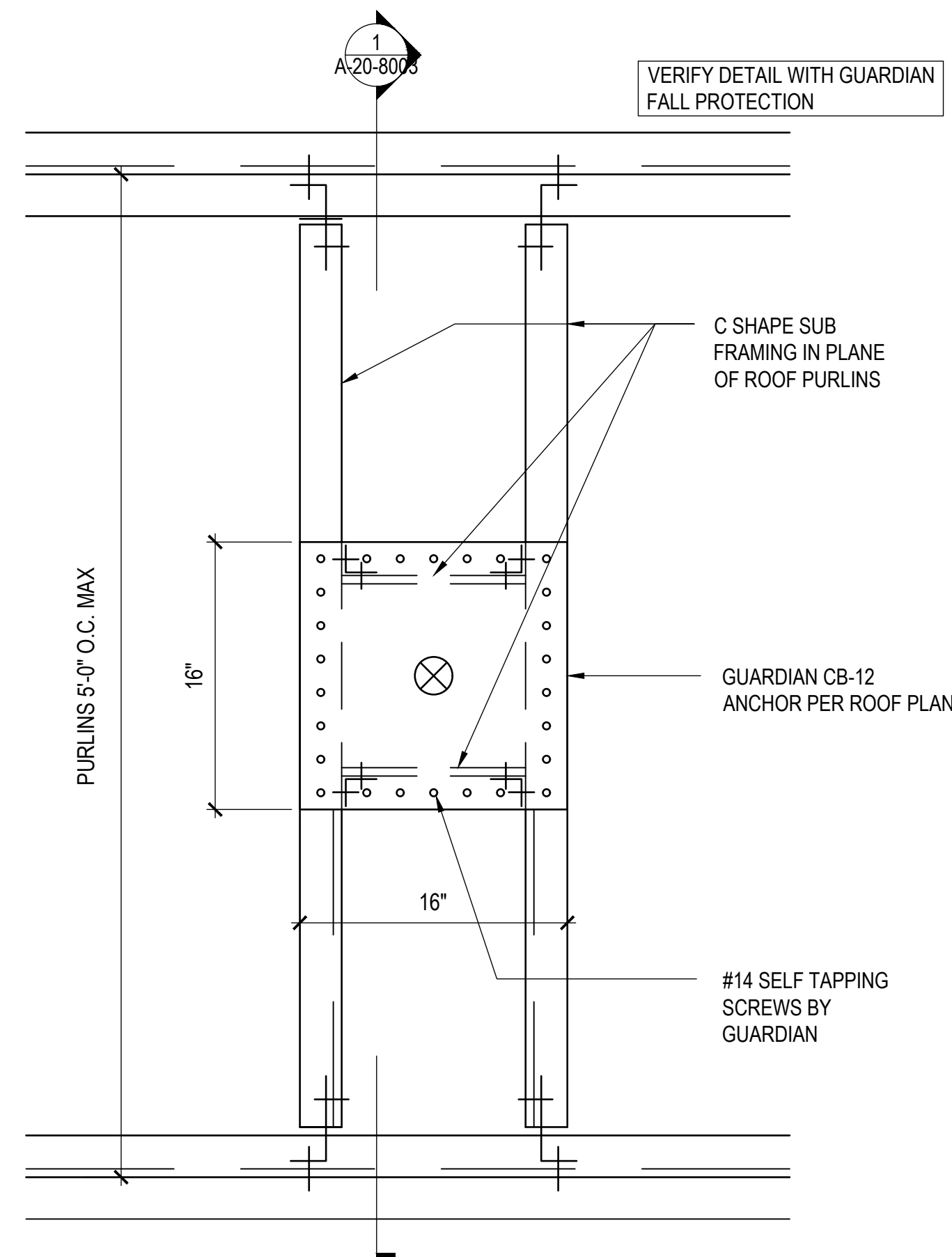


5 FALL RESTRAINT SECTION DETAIL @ METAL STRUCTURE
SCALE: 1 1/2" = 1'-0"



3 ROOF OPENING - DOWNSLOPE EDGE
SCALE: 3" = 1'-0"

4 ROOF OPENING - UPSLOPE EDGE
SCALE: 3" = 1'-0"



6 FALL RESTRAINT PLAN DETAIL @ METAL STRUCTURE
SCALE: 1 1/2" = 1'-0"

Brown AND Caldwell

WAGNER
ARCHITECTS
PLANNERS

90% DESIGN



Sammamish
Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

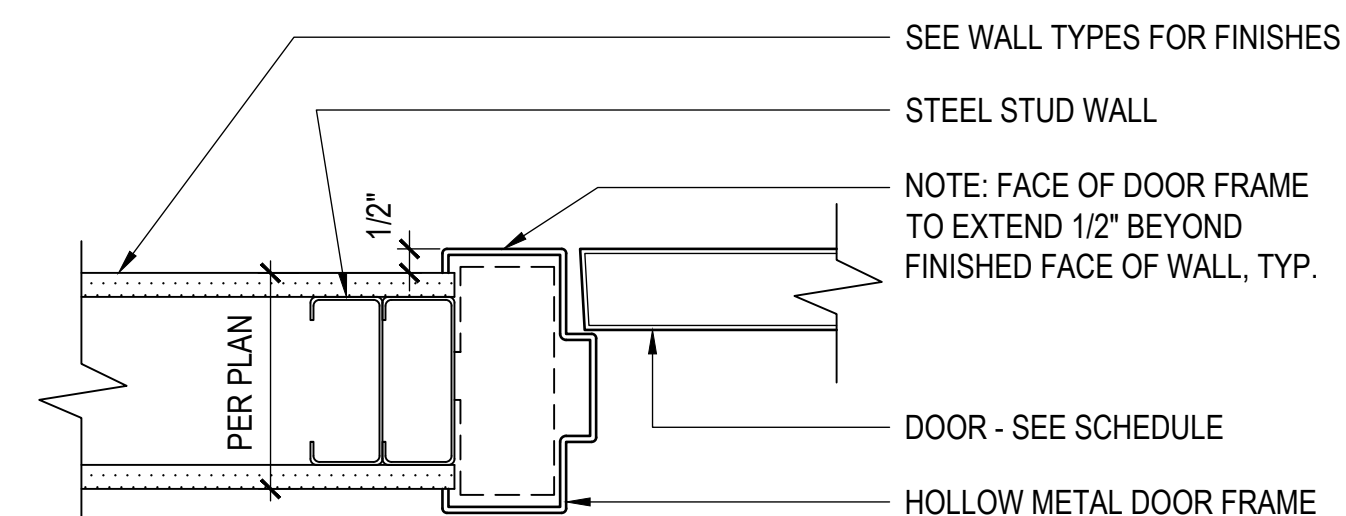
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DRAWN: A. PURNAPUSPITA
CHECKED: R. WAGNER
CHECKED: #####
APPROVED: #####
FILENAME
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BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

ARCHITECTURAL

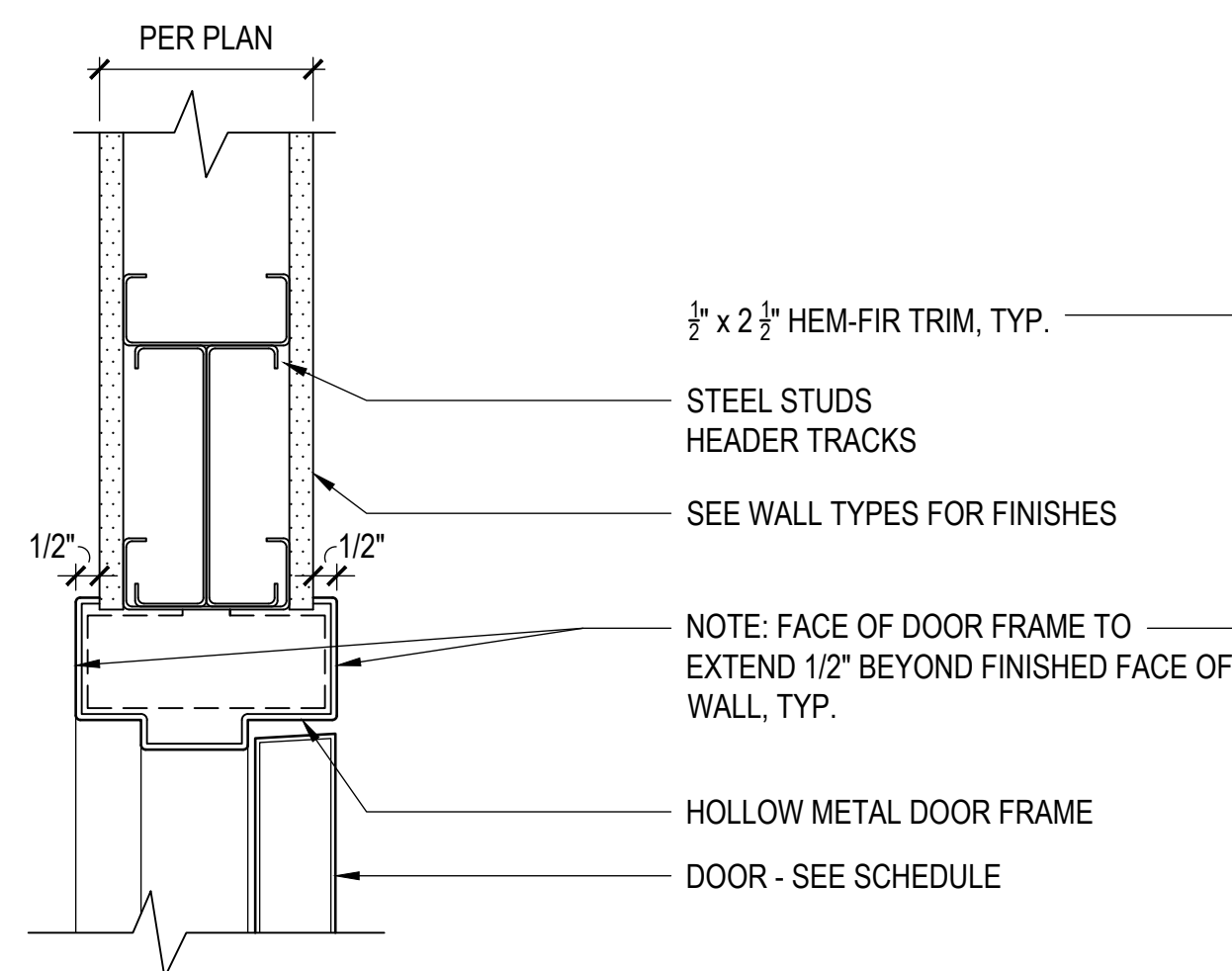
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ROOF DETAILS

DRAWING NUMBER
A-20-8003
SHEET NUMBER
OF

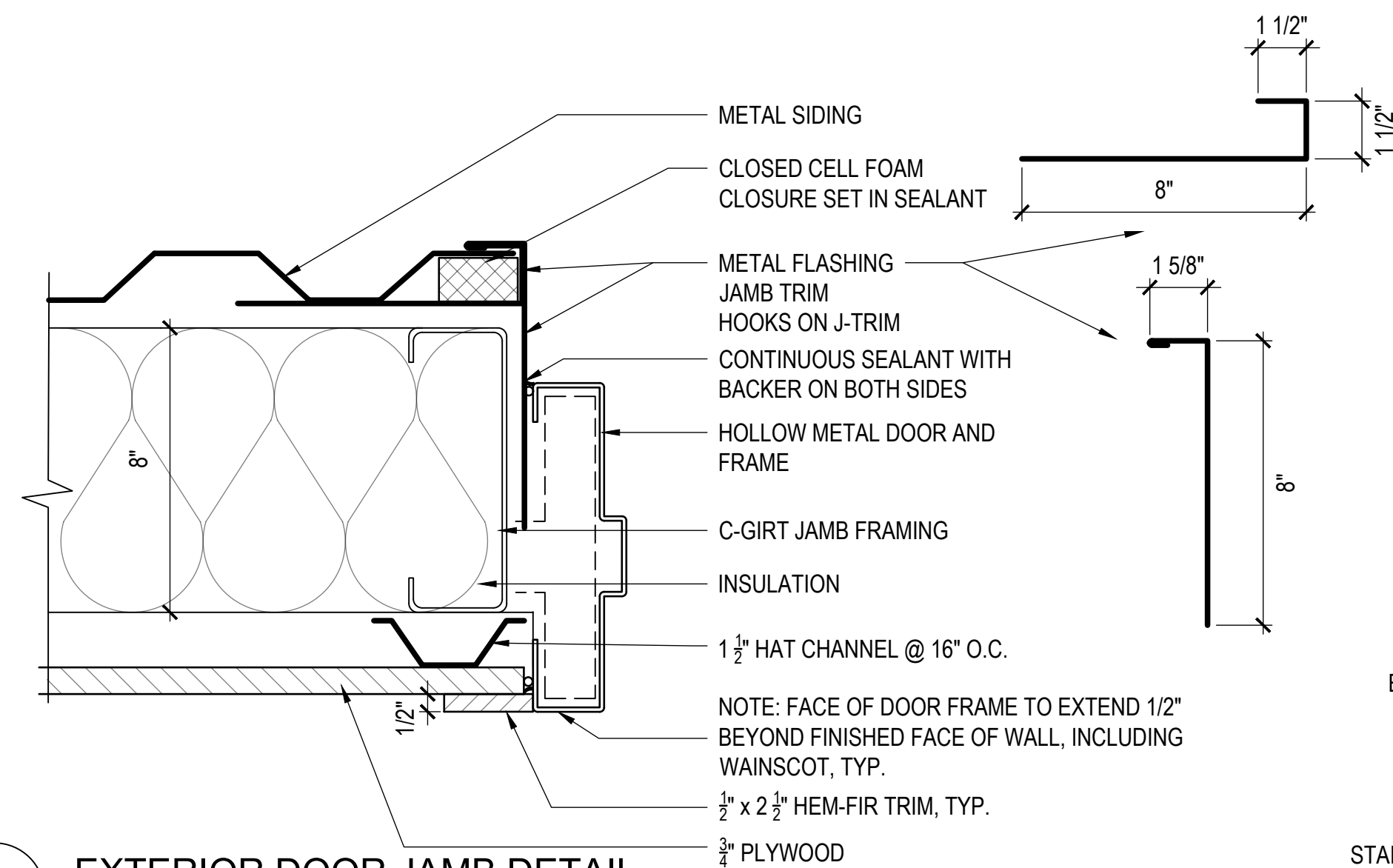
1 2 3 4 5 6



1 INTERIOR DOOR JAMB
SCALE: 3" = 1'-0"

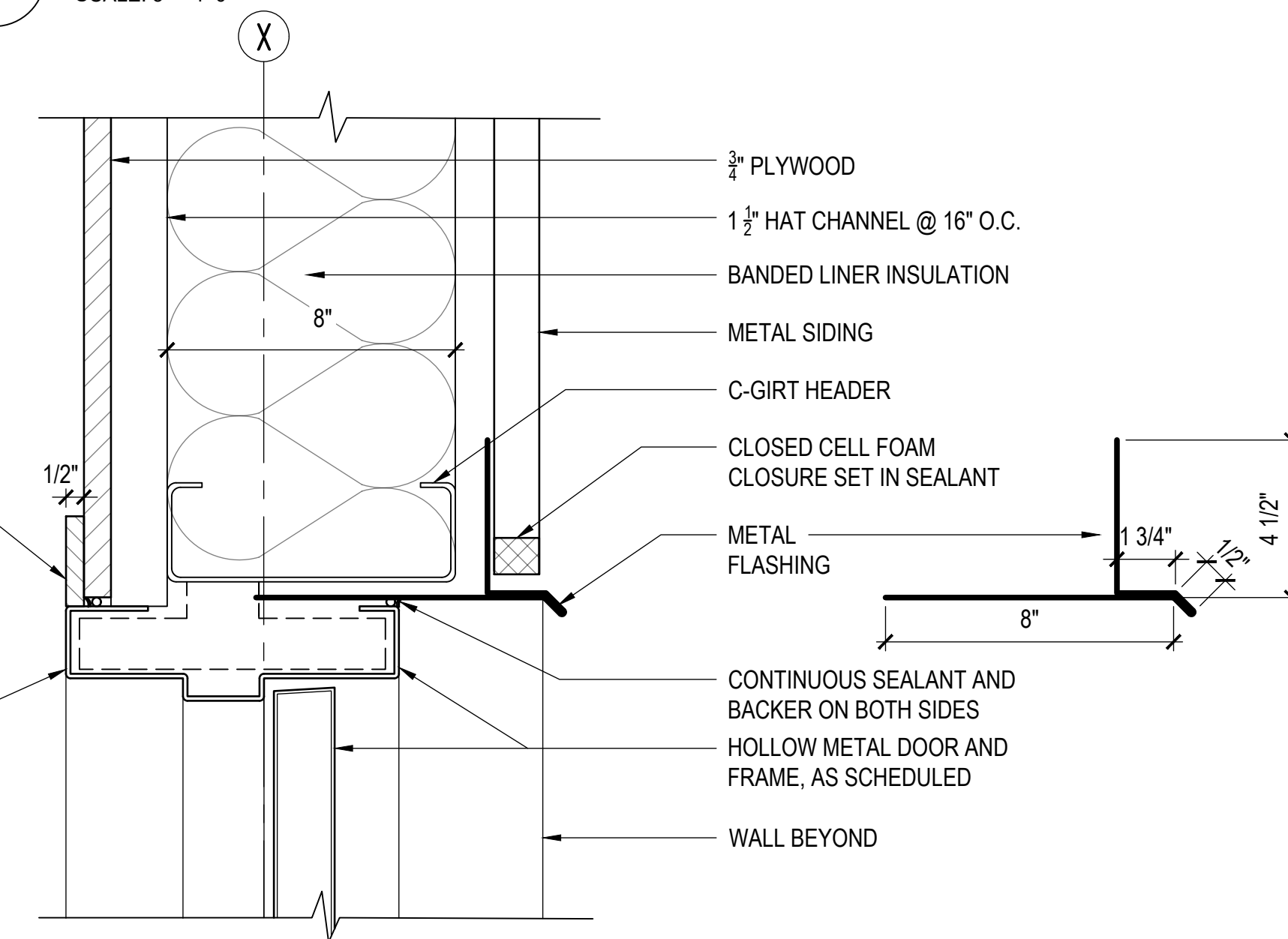


2 INTERIOR DOOR HEAD

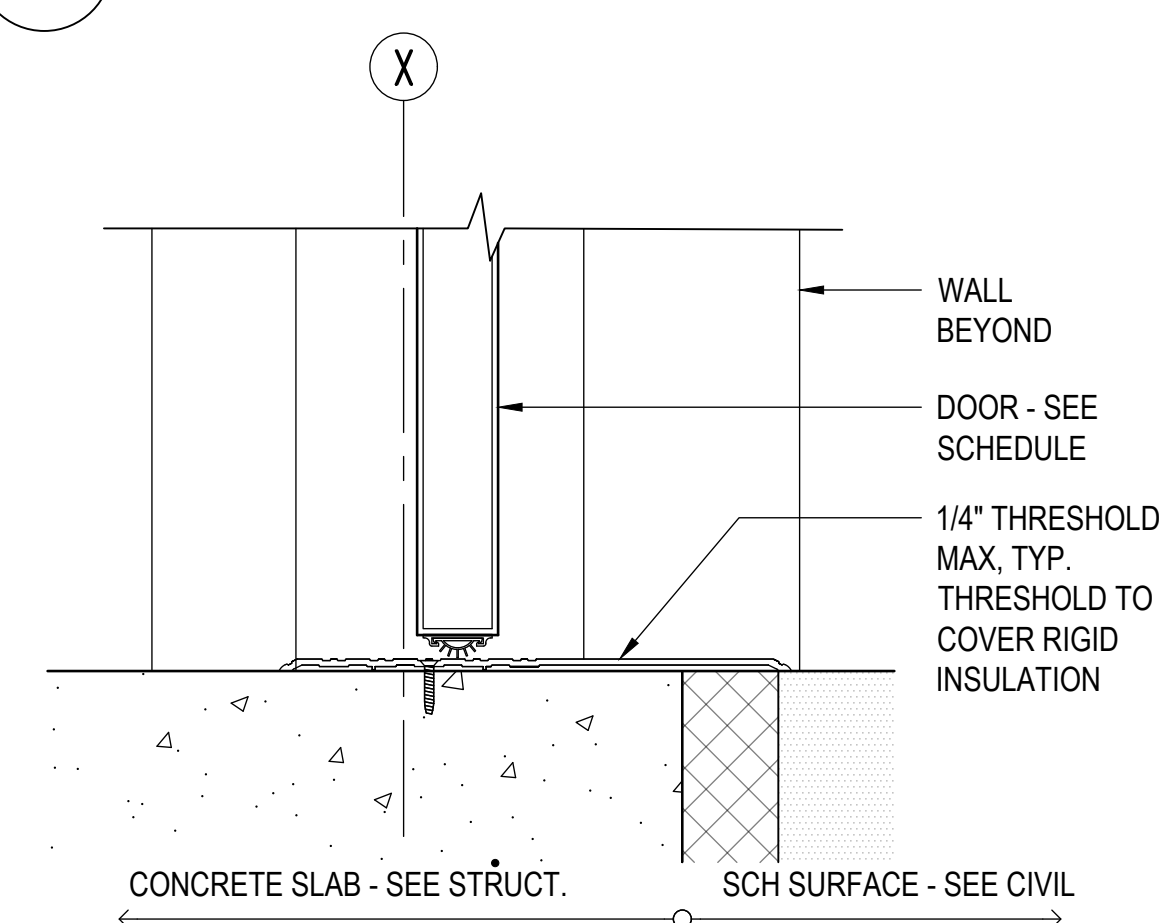


3 EXTERIOR DOOR JAMB DETAIL

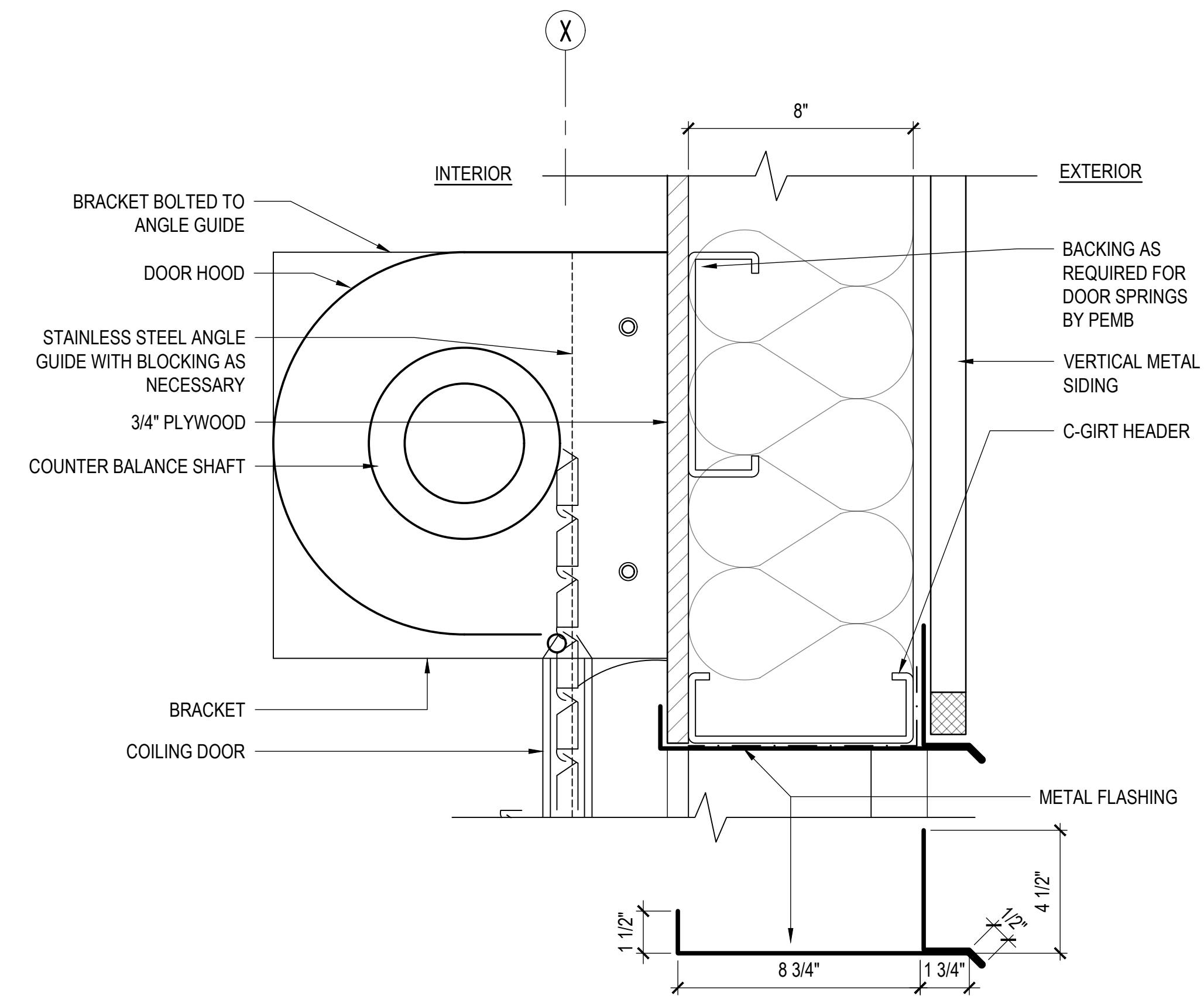
SCALE: 3" = 1'-0"



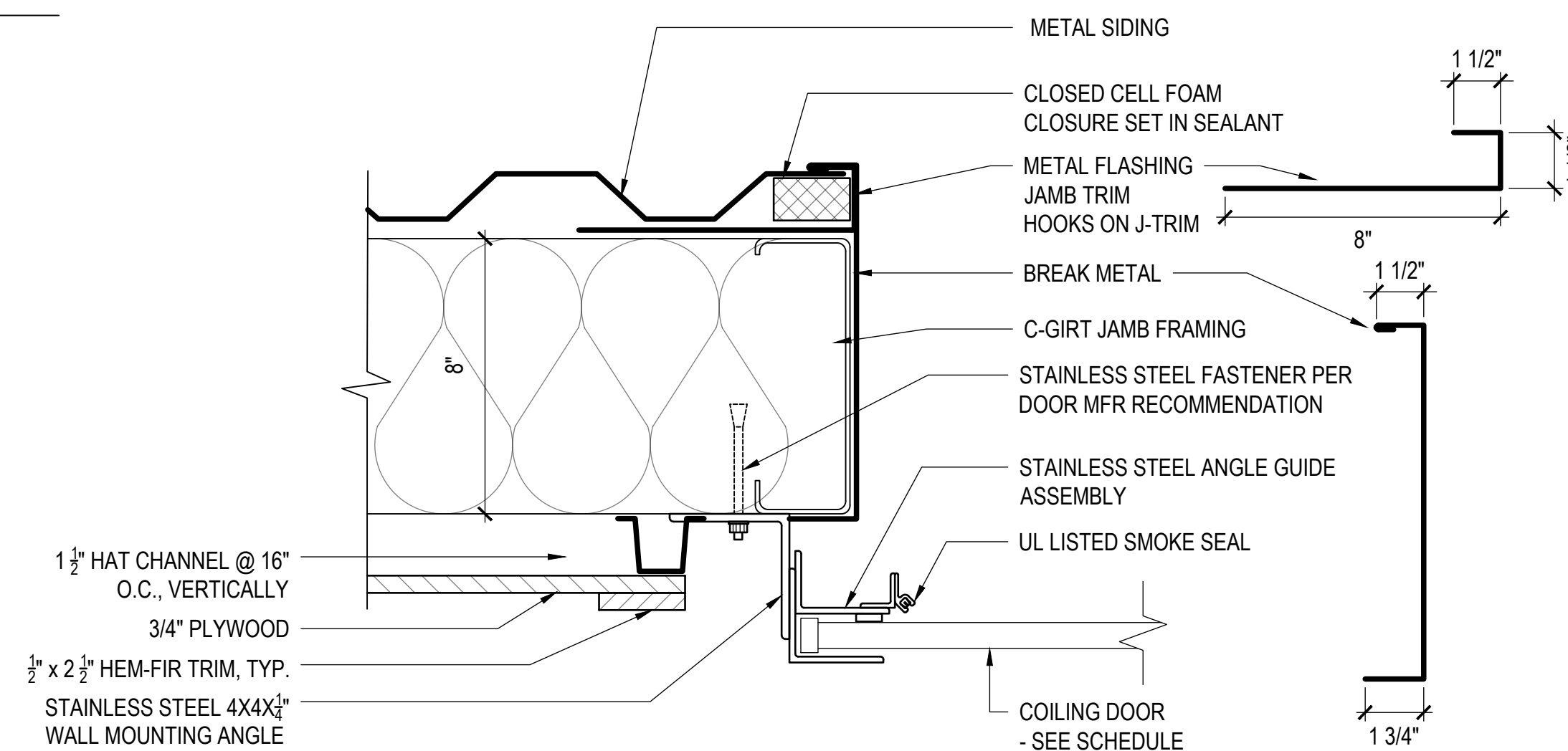
4 EXTERIOR DOOR HEAD DETAIL



5 EXTERIOR DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



6 OVERHEAD DOOR HEADER
SCALE: 3" = 1'-0"



7 OVERHEAD DOOR JAMB
SCALE: 3" = 1'-0"



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Sammamish
Plateau Water
PFAS Project

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

11/2"	DESIGNED: G. SOMERS
	DRAWN: A. PURNAPUSPITA
	CHECKED: R. WAGNER
	CHECKED: #####
	APPROVED: #####
	<div> <div>FILENAME</div> <div>A-20-8004 DOOR DETAILS.DWG</div> <div>BC PROJECT NUMBER</div> <div>155452</div> <div>CLIENT PROJECT NUMBER</div> </div>

ARCHITECTURAL

GAC BUILDING
DOOR DETAILS

DRAWING NUMBER
A-20-8004
SHEET NUMBER
OF

Plot Date: 12/16/2020 9:44:34 AM Path: BIN 360//155452 - Sammamish Plateau PFAS Design/155452-S-20/19.rvt

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SPECIAL INSPECTIONS

- SI 1 AN INDEPENDENT TESTING COMPANY RETAINED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL SHALL INSPECT THE FOLLOWING (SEE EXPANDED LIST ON DRAWINGS 000-S-003 AND 000-S-004, SPECIFICATIONS AND GOVERNING CODE):
1. SOIL COMPACTION AT FOUNDATIONS.
 2. REINFORCING BAR, CONCRETE PLACEMENT AND TAKING OF CONCRETE TEST SPECIMENS.
 3. ANCHOR BOLTS.
 4. FIELD WELDING OF STRUCTURAL STEEL AND ALUMINUM.
 5. SHOP WELDING OF STRUCTURAL STEEL EXCEPT WHERE WELDING IS DONE IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH THE PROVISIONS OF THE GOVERNING BUILDING CODE.
 6. EXPANSION ANCHOR INSTALLATION.
 7. ANCHORS INSTALLED USING EPOXY ADHESIVE.
 8. HIGH STRENGTH BOLTING
 9. MECHANICAL AND ELECTRICAL EQUIPMENT, PERIODIC SPECIAL INSPECTION OF STRUCTURAL COMPONENTS FOR SEISMIC RESISTANCE:
 - A. ANCHORAGE OF ELECTRICAL EQUIPMENT.
 - B. EMERGENCY AND STANDBY POWER SYSTEMS.
 - C. PIPING SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC CONTENTS AND THEIR ASSOCIATED UNITS.
 - D. HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS.
 - E. INSTALLATION OF COMPONENTS WHERE THE COMPONENT IMPORTANCE FACTOR IS 1.5.
 - F. ELECTRICAL MOTORS, TRANSFORMERS, SWITCHGEAR UNIT SUBSTATIONS, AND MOTOR CONTROL CENTERS.
 - G. TANKS, HEAT EXCHANGERS, AND PRESSURE VESSELS.
 - H. EQUIPMENT USING COMBUSTIBLE ENERGY SOURCES.
 - I. EQUIPMENT VIBRATION ISOLATION SYSTEMS.
- SI 2 CONTRACTOR SHALL NOTIFY THE TESTING COMPANY FOR ALL INSPECTIONS.

STRUCTURAL OBSERVATIONS

- SO 1 THE OWNER SHALL RETAIN A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS. THE CONSTRUCTION MANAGER SHALL NOTIFY THE OWNER AT LEAST 48 HOURS BEFORE A DESIGNATED WORK IS TO BE COVERED. REFER TO SPECIFICATION 01400 FOR ADDITIONAL REQUIREMENTS.
- SO 2 REQUIRED STRUCTURAL OBSERVATIONS INCLUDE:
1. STRUCTURAL FILL AND DEEP FOUNDATIONS.
 2. FOUNDATIONS PREPARED FOR CONCRETE PLACEMENT.
 3. COMPLETION OF LATERAL FORCE RESISTING ELEMENTS INCLUDING MOMENT CONNECTIONS, BRACING, DIAPHRAGMS, AND OTHER ELEMENTS.

STRUCTURAL DEFERRED SUBMITTALS

- SDS 1 THE CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON TO THE ENGINEER FOR REVIEW. STRUCTURAL DEFERRED SUBMITTALS INCLUDE:
1. PRE-ENGINEERED METAL BUILDING
 2. PRECAST-PRESTRESSED CONCRETE ELEMENTS INCLUDING:
 - a. SITE STRUCTURES AND VAULTS.
 3. ANCHOR BOLTS FOR ALL EQUIPMENT ANCHORAGE.
 4. GUARDRAILS AND HANDRAILS.
 5. FLOOR AND ROOF ACCESS HATCHES.
 6. ALTERNATE ROOF DECK FASTENING (IF USED).
 7. CONSTRUCTION SHORING.

TENSION DEVELOPMENT AND LAP SPLICE LENGTHS (IN INCHES)

BAR SIZE	APPLICATION	CONCRETE COVER = 0.75 IN.			CONCRETE COVER = 1.00 IN.			CONCRETE COVER = 1.50 IN.			CONCRETE COVER = 2.00 IN.			CONCRETE COVER = 3.00 IN.		
		TOP	OTHER	MIN C/C SPACING	TOP	OTHER	MIN C/C SPACING	TOP	OTHER	MIN C/C SPACING	TOP	OTHER	MIN C/C SPACING	TOP	OTHER	MIN C/C SPACING
#3	DEVELOPMENT LAP SPLICE	12	12	2.00	12	12	2.50	12	12	3.50	12	12	4.50	12	12	6.50
		16	16	2.25	16	16	2.75	16	16	3.75	16	16	4.75	16	16	6.75
#4	DEVELOPMENT LAP SPLICE	19	15	2.00	15	12	2.50	15	12	3.50	15	12	4.50	15	12	6.50
		24	19	2.50	20	16	3.00	20	16	4.00	20	16	5.00	20	16	7.00
#5	DEVELOPMENT LAP SPLICE	28	21	2.25	22	17	2.75	19	15	3.75	19	15	4.75	19	15	6.75
		37	28	2.75	29	22	3.25	24	19	4.25	24	19	5.25	24	19	7.25
#6	DEVELOPMENT LAP SPLICE	37	29	2.25	31	24	2.75	22	17	3.75	22	17	4.75	22	17	6.75
		48	37	3.00	40	31	3.50	29	22	4.50	29	22	5.50	29	22	7.50
#7	DEVELOPMENT LAP SPLICE	60	46	2.50	50	38	3.00	37	28	4.00	33	25	5.00	33	25	7.00
		78	60	3.25	64	50	3.75	48	37	4.75	42	33	5.75	42	33	7.75
#8	DEVELOPMENT LAP SPLICE	74	57	2.50	62	48	3.00	47	36	4.00	37	29	5.00	37	29	7.00
		96	74	3.50	80	62	4.00	60	47	5.00	48	37	6.00	48	37	8.00
#9	DEVELOPMENT LAP SPLICE	90	69	2.75	76	58	3.25	57	44	3.25	46	36	5.25	42	32	7.25
		117	90	3.75	98	76	4.25	74	57	4.25	60	46	6.25	55	42	8.25

- NOTES:
1. TABULATED VALUES ARE BASED ON UNCOATED GRADE 60 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE MINIMUM f/c = 4,000 PSI.
 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 IN. OF FRESH CONCRETE CAST BELOW THE BARS.
 3. LAP SPLICE LENGTHS ARE LAP CLASS B = 1.3 l_d.
 4. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318, SECTIONS 12.2.3 AND 12.15, RESPECTIVELY.
 5. LENGTHS ABOVE THE HEAVY LINE DO NOT CHANGE BASE ON COVER THICKNESS. LENGTHS BELOW THE HEAVY LINE ARE DIFFERENT AT EACH COVER THICKNESS. [THIS FULL CHAR IS ONLY USED ON PROJECTS WITH LOWER COVER REQUIREMENTS.]



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Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

STRUCTURAL
GENERAL NOTES 2

DRAWING NUMBER

S-20-0002

SHEET NUMBER

OF

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TABLE 1				
REQUIRED SPECIAL INSPECTIONS - STRUCTURAL SYSTEMS				
SYSTEM OR MATERIAL	REQUIRED INSPECTION	FREQUENCY OF INSPECTION		REMARKS
		CONTINUOUS	PERIODIC	
SOILS	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	
	VERIFY SOIL MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY		X	
	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	
	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	SEE TABLE 3
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X		SEE TABLE 3
	OBSERVE CAISSON SINKING	X		
CONCRETE	INSPECT FORMWORK FOR LOCATION AND DIMENSIONS OF MEMBER BEING FORMED		X	
	VERIFY MATERIAL FOR REINFORCEMENT		X	CONTRACTOR TO SUBMIT CERTIFIED MILL TEST REPORTS
	REINFORCING STEEL PLACEMENT		X	
	INSPECT ANCHORS TO BE CAST IN CONCRETE		X	PRIOR TO AND DURING CONCRETE PLACEMENT
	INSPECT POST-INSTALLED CONCRETE ANCHORS: - HORIZONTAL AND UPWARDLY INCLINED ADHESIVE ANCHORS - OTHER ANCHORS UNLESS ICC REPORT REQUIRED CONTINUOUS INSPECTION	X	X	INSPECTION TO CONFORM TO IBC AND TO ANCHOR MANUFACTURER'S RECOMMENDATIONS AND ICC REPORTS
	VERIFY USE OF REQUIRED CONCRETE MIX DESIGN(S)		X	
	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND TEMPERATURE OF CONCRETE	X		CONTINUOUS DURING PREPARATION OF SAMPLES
	CONCRETE PLACEMENT	X		
	INSPECTION FOR MAINTENANCE OF CURING PROCEDURES AND TEMPERATURE		X	VERIFY APPROPRIATE CURING METHOD HAS BEEN IMPLEMENTED AFTER EACH POUR
	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM STRUCTURAL SLABS AND BEAMS		X	
	CEMENTITIOUS GROUTING OF BASE PLATES AND EPOXY GROUTING FOR EQUIPMENT MOUNTING	X		

TABLE 1				
REQUIRED SPECIAL INSPECTIONS - STRUCTURAL SYSTEMS				
SYSTEM OR MATERIAL	REQUIRED INSPECTION	FREQUENCY OF INSPECTION		REMARKS
		CONTINUOUS	PERIODIC	
STRUCTURAL STEEL	FABRICATION OF STRUCTURAL ELEMENTS			FABRICATOR SHALL BE APPROVED IN ACCORDANCE WITH IBC, CHAPTER 17 TO PERFORM WORK WITHOUT SPECIAL INSPECTION
	VERIFY MATERIAL OF ANCHOR BOLTS AND THREADED RODS		X	CONTRACTOR TO SUBMIT MANUFACTURER'S CERTIFIED TEST REPORTS
	VERIFY MATERIAL OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X	CONTRACTOR TO SUBMIT MANUFACTURER'S CERTIFIED TEST REPORTS
	VERIFY MATERIAL FOR STRUCTURAL STEEL SHAPES, PLATES, BARS, ETC.		X	CONTRACTOR TO SUBMIT CERTIFIED MILL TEST REPORTS
	VERIFY MATERIALS FOR WELD FILLER MATERIALS		X	
	VERIFY WELDER QUALIFICATIONS		X	CONTRACTOR TO SUBMIT WELDERS CERTIFICATES
	VERIFY USE OF PROPER WELDING PROCEDURES		X	
	INSPECT COMPLETE AND PARTIAL-PENETRATION GROOVE WELDS, MULTI-PASS FILLET WELDS, AND SINGLE-PASS FILLET WELDS GREATER THAN 5/16"	X		
	INSPECT SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"		X	VISUALLY INSPECT ALL WELDS
	INSPECT HIGH-STRENGTH BEARING-TYPE BOLTED CONNECTIONS		X	
	INSPECT HIGH-STRENGTH SLIP CRITICAL-TYPE BOLTED CONNECTIONS	X		
	VERIFY TYPE, DEPTH AND GAGE OF DECKING AND GRATING		X	
	INSPECT INSTALLATION (ATTACHMENT) OF DECKING AND GRATING		X	
	INSPECT FRAME AND TRUSSES TO VERIFY THAT BRACING, STIFFENERS, MEMBER LOCATIONS AND JOINT DETAILS COMPLY WITH APPROVED CONSTRUCTION DRAWINGS		X	

QUALITY ASSURANCE NOTES

1.
- THE QUALITY OF THE WORKMANSHIP AND THE QUALITY OF THE MATERIALS OF CONSTRUCTION ARE GOVERNED BY THE INTERNATIONAL BUILDING CODE, 2012 EDITION (IBC).
2.
- ALL NEW STRUCTURES AND MODIFICATIONS TO EXISTING STRUCTURES TO BE CONSTRUCTED AS A PART OF THIS PROJECT ARE CLASSIFIED AS OCCUPANT CATEGORY III, WASTE WATER TREATMENT FACILITY, IN ACCORDANCE WITH THE IBC. THE STRUCTURES ARE CLASSIFIED AS SEISMIC DESIGN CATEGORY D.
3.
- TO ASSURE THE QUALITY OF THE CONSTRUCTION OF THIS PROJECT, STRUCTURAL TESTS, SPECIAL INSPECTION AND STRUCTURAL OBSERVATION WILL BE PERFORMED IN ACCORDANCE WITH IBC, CHAPTER 17.
4.
- WHERE FREQUENCY OF INSPECTION IS SPECIFIED TO BE CONTINUOUS, THE SPECIAL INSPECTOR IS EXPECTED TO BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED AND PROVIDING FULL-TIME OBSERVATION OF THE WORK REQUIRING SPECIAL INSPECTION.
5.
- WHERE FREQUENCY OF INSPECTION IS SPECIFIED TO BE PERIODIC, THE SPECIAL INSPECTOR IS EXPECTED TO BE PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK (PRIOR TO THE NEXT CONSTRUCTION TASK).
6.
- SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIALS. CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL. COORDINATE WITH BUILDING DEPARTMENT TO DETERMINE REQUIRED INSPECTIONS.
7.
- CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL PROVIDE NOTIFICATION IN ADVANCE OF REQUIRED INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS.



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

CHECKED:

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

SPECIAL
INSPECTION 1

DRAWING NUMBER

S-20-0003

SHEET NUMBER
OF

Plot Date: 12/16/2020 9:44:35 AM Path: BIM 360//155452 - Sammamish Plateau PFAS Design/155452-S-20/19.rvt

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TABLE 2				
REQUIRED SPECIAL INSPECTIONS - NONSTRUCTURAL SYSTEMS				
SYSTEM OR MATERIAL	REQUIRED INSPECTION	FREQUENCY OF INSPECTION		REMARKS
		CONTINUOUS	PERIODIC	
ARCHITECTURAL	INSPECT WELDING OF GUARD AND HANDRAIL SYSTEMS		X	
	EXTERIOR WALL PANELS AND THEIR ANCHORAGE		X	
	SUSPENDED CEILINGS AND THEIR ANCHORAGE		X	
MECHANICAL	INSPECT ANCHORAGE OF FIRE SPRINKLER SYSTEM		X	
	INSPECT ANCHORAGE OF ALL MECHANICAL SYSTEMS (INCLUDING EQUIPMENT PIPING, DUCT WORK, ETC.) REQUIRING STANDBY POWER		X	
	CERTIFICATE OF COMPLIANCE FOR ALL MECHANICAL EQUIPMENT REQUIRING STANDBY POWER			EQUIPMENT MANUFACTURER SHALL PROVIDE CERTIFICATE OF COMPLIANCE
ELECTRICAL	INSPECT ANCHORAGE OF ELECTRICAL EQUIPMENT FOR STANDBY POWER		X	
	INSPECT ANCHORAGE OF ALL OTHER ELECTRICAL EQUIPMENT REQUIRING STANDBY POWER		X	
	CERTIFICATE OF COMPLIANCE FOR ALL ELECTRICAL EQUIPMENT FOR STANDBY POWER AND ALL ELECTRICAL EQUIPMENT REQUIRING STANDBY POWER			EQUIPMENT MANUFACTURER SHALL PROVIDE CERTIFICATE OF COMPLIANCE
	EMERGENCY LIGHTING		X	

TABLE 3			
REQUIRED TESTING FOR SPECIAL INSPECTIONS			
SYSTEM OR MATERIAL	TESTING		REMARKS
	CODE OR STANDARD REFERENCE	FREQUENCY	
GEOTECHNICAL			
PREPARED SUBGRADE DENSITY	ASTM D6938	EACH 300 SF OF PREPARED SUBGRADE	PER GEOTECHNICAL REPORT
FILL IN-PLACE DENSITY	ASTM D6938	EACH 300 SF OF EACH LIFT PLACED EACH DAY	PER GEOTECHNICAL REPORT
CONCRETE			
CONCRETE COMPRESSIVE STRENGTH	ASTM C31,ASTM C39,ASTM C172	SEE SPECIFICATION 03300	
CONCRETE SLUMP	ASTM C143	WHENEVER CYLINDERS ARE CAST	
CONCRETE AIR CONTENT	ASTM C231	WHENEVER CYLINDERS ARE CAST	
CONCRETE TEMPERATURE	ASTM C1064	WHENEVER CYLINDERS ARE CAST	
CEMENTITIOUS AND EPOXY GROUT COMPRESSIVE STRENGTH	ASTM C942 (CEMENTITIOUS) ASTM C579 (EPOXY)		TEST 2" CUBES FOR EACH GROUT SHIPMENT TO THE FIELD
STEEL			
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	MT - AWS D1.1 6.14.4 UT - AWS D1.1 6.13 & 6.14.3	AT ALL PARTIAL AND FULL PENETRATION FIELD WELDS	
PRE-CONSTRUCTION TESTING OF WELDING STUDS	AWS D1.1 7.7.1	EACH SIZE AND TYPE OF STUD EACH SHIFT	
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 7	EACH COMBINATION OF DIAMETER, LENGTH, GRADE, AND LOT TO BE USED IN THE WORK	



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Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

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APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

SPECIAL
INSPECTION 2

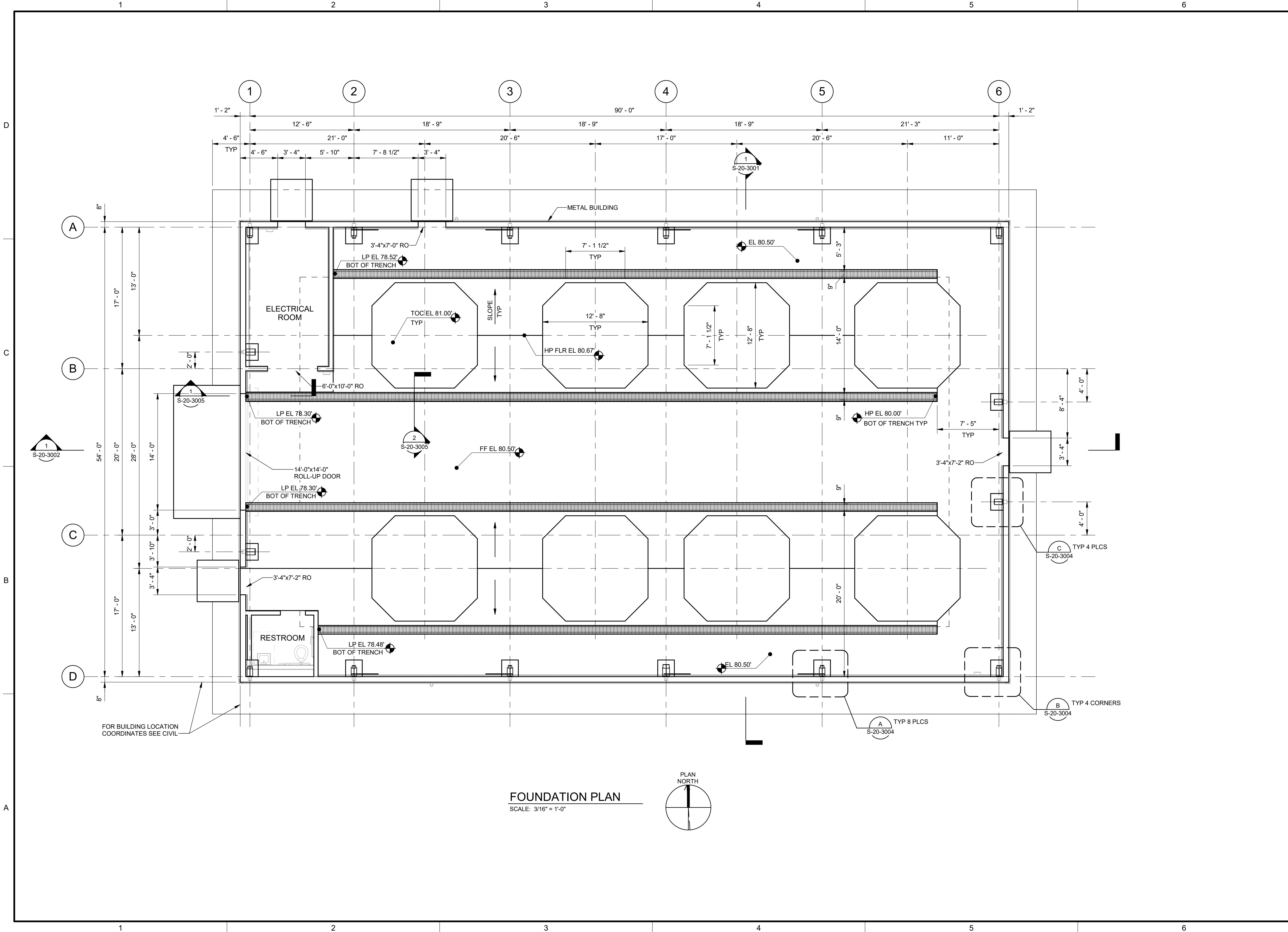
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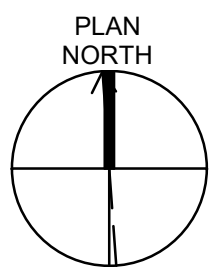
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FOUNDATION PLAN
SCALE: 3/16" = 1'-0"



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Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

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APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

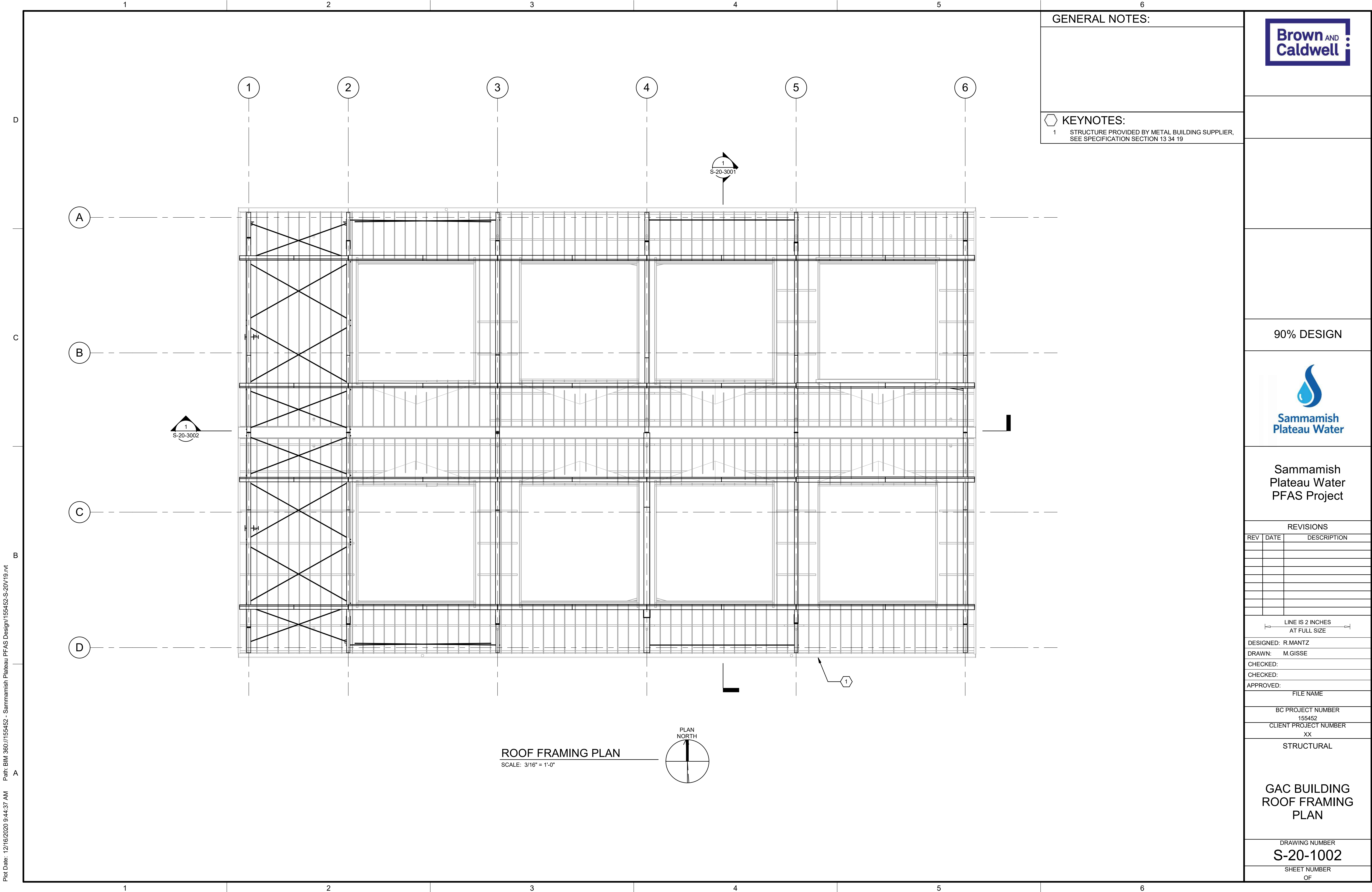
GAC BUILDING
FOUNDATION PLAN

DRAWING NUMBER

S-20-1001

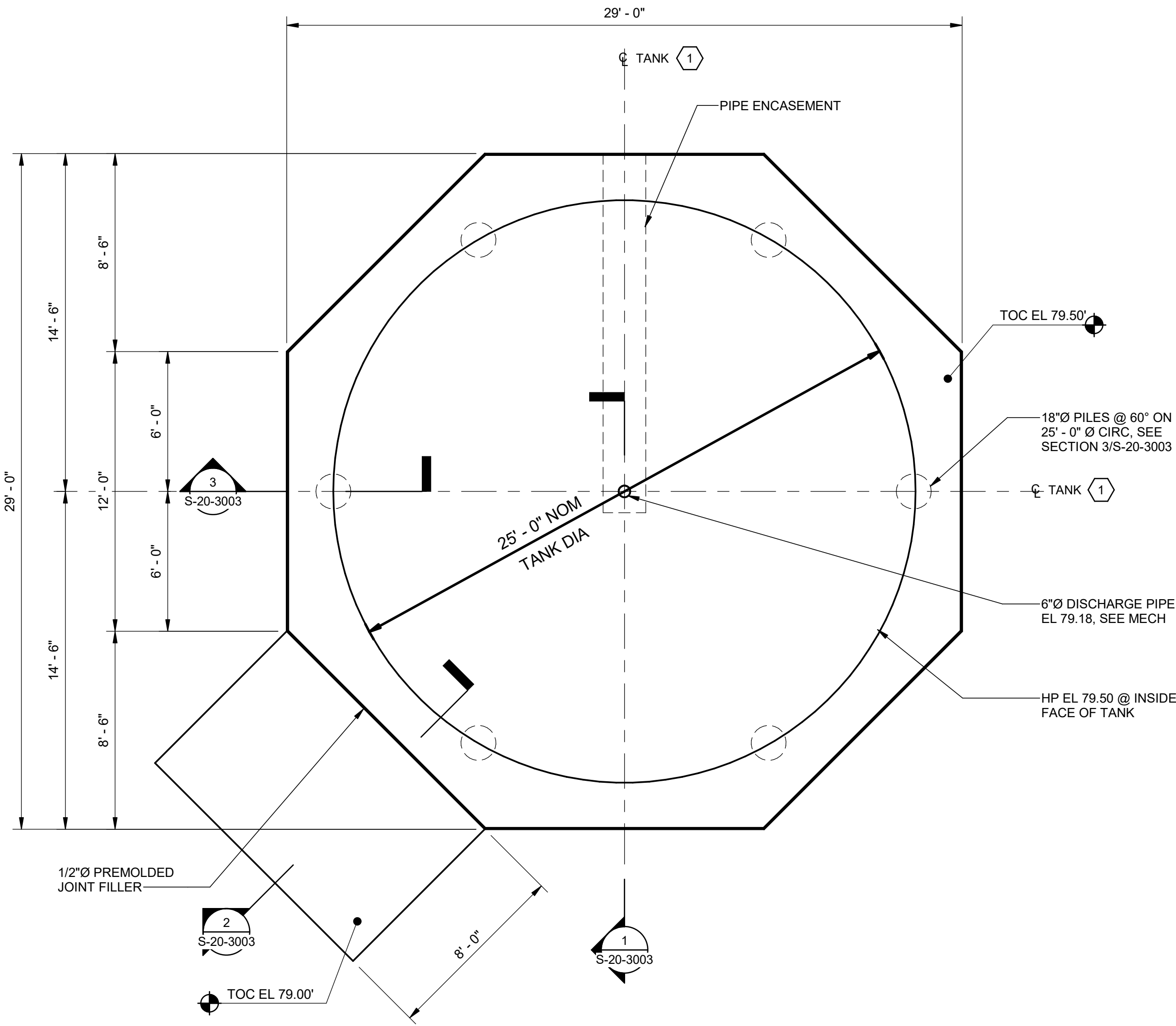
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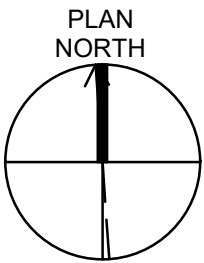


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BACKWASH WATER TANK FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES:

KEYNOTES:

1 FOR TANK CENTERLINE COORDINATES, SEE CIVIL



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Sammamish
Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

SPENT BACKWASH
TANK FOUNDATION
PLAN

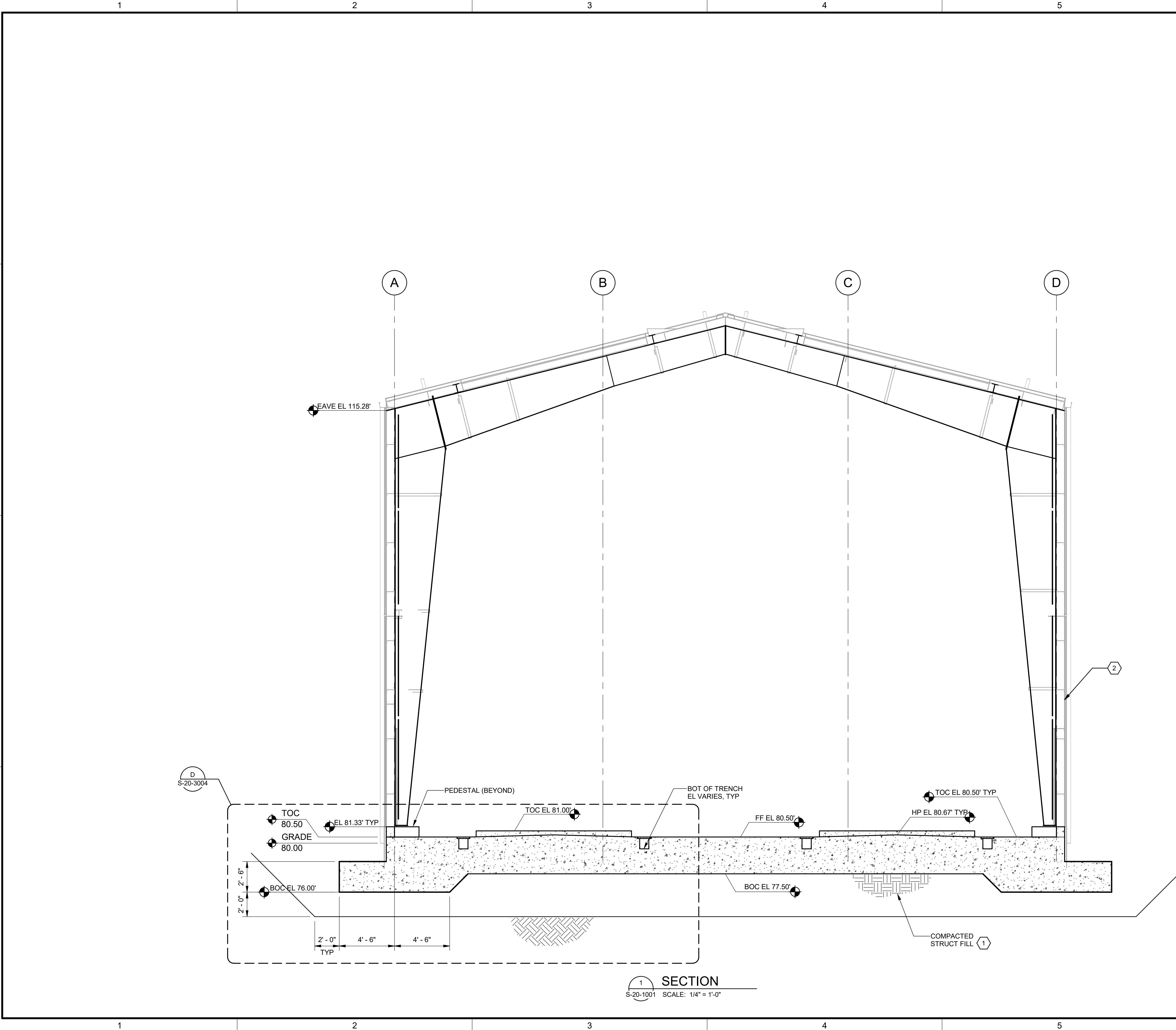
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SHEET NUMBER

OF

Plot Date: 12/16/2020 9:44:37 AM Path: BIM 360//155452 - Sammamish Plateau PFAS Design/155452-S-20/19.rvt



GENERAL NOTES:

KEYNOTES:

1 SEE SPECIFICATION SECTION 31 23 00

2 STRUCTURE PROVIDED BY METAL BUILDING SUPPLIER, SEE SPECIFICATION SECTION 13 34 19



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Sammamish Plateau Water
PFAS Project

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER
155452

CLIENT PROJECT NUMBER
XX

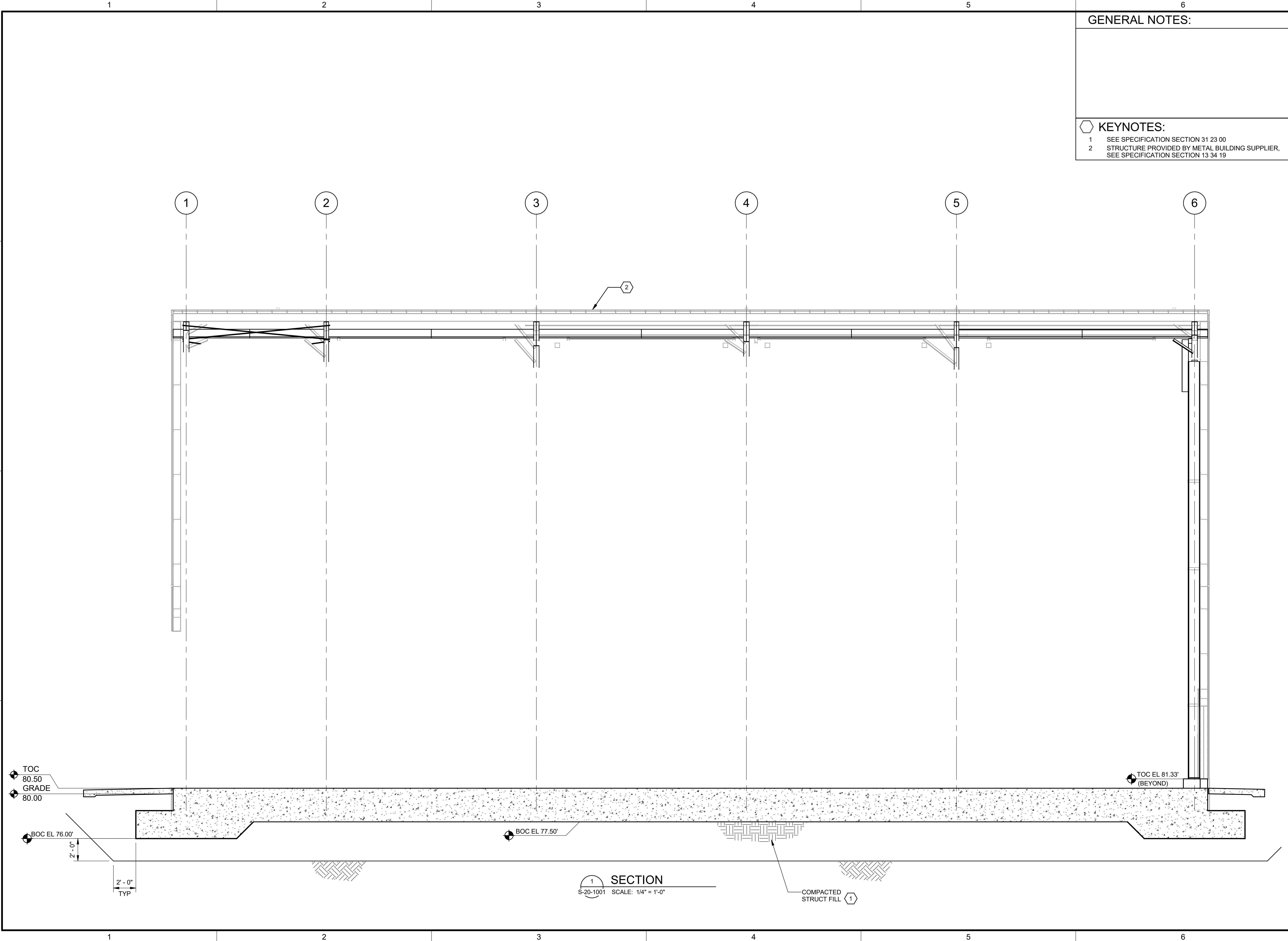
STRUCTURAL

GAC BUILDING
BUILDING CROSS
SECTIONS

DRAWING NUMBER
S-20-3001

SHEET NUMBER
OF

Plot Date: 12/16/2020 9:44:38 AM Path: BIN 360//155452 - Sammamish Plateau PFAS Design/155452-S-20/19.rvt



GENERAL NOTES:

- KEYNOTES:
- 1 SEE SPECIFICATION SECTION 31 23 00
 - 2 STRUCTURE PROVIDED BY METAL BUILDING SUPPLIER, SEE SPECIFICATION SECTION 13 34 19



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PFAS Project

REVISIONS		
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AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

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APPROVED:

FILE NAME
BC PROJECT NUMBER 155452
CLIENT PROJECT NUMBER XX

STRUCTURAL

GAC BUILDING
LONGITUDINAL
SECTIONS

DRAWING NUMBER S-20-3002
SHEET NUMBER OF

Plot Date: 12/16/2020 9:44:39 AM Path: BIM 360//155452 - Sammamish Plateau PFAS Design/155452-S-20V19.rvt



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PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

CHECKED:

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

SPENT BACKWASH
TANK SECTIONS
AND DETAILS

DRAWING NUMBER

S-20-3003

SHEET NUMBER

OF

Plot Date: 12/16/2020 9:44:40 AM Path: BIM 360//155452 - Sammamish Plateau PFAS Design/155452-S-20V19.rvt

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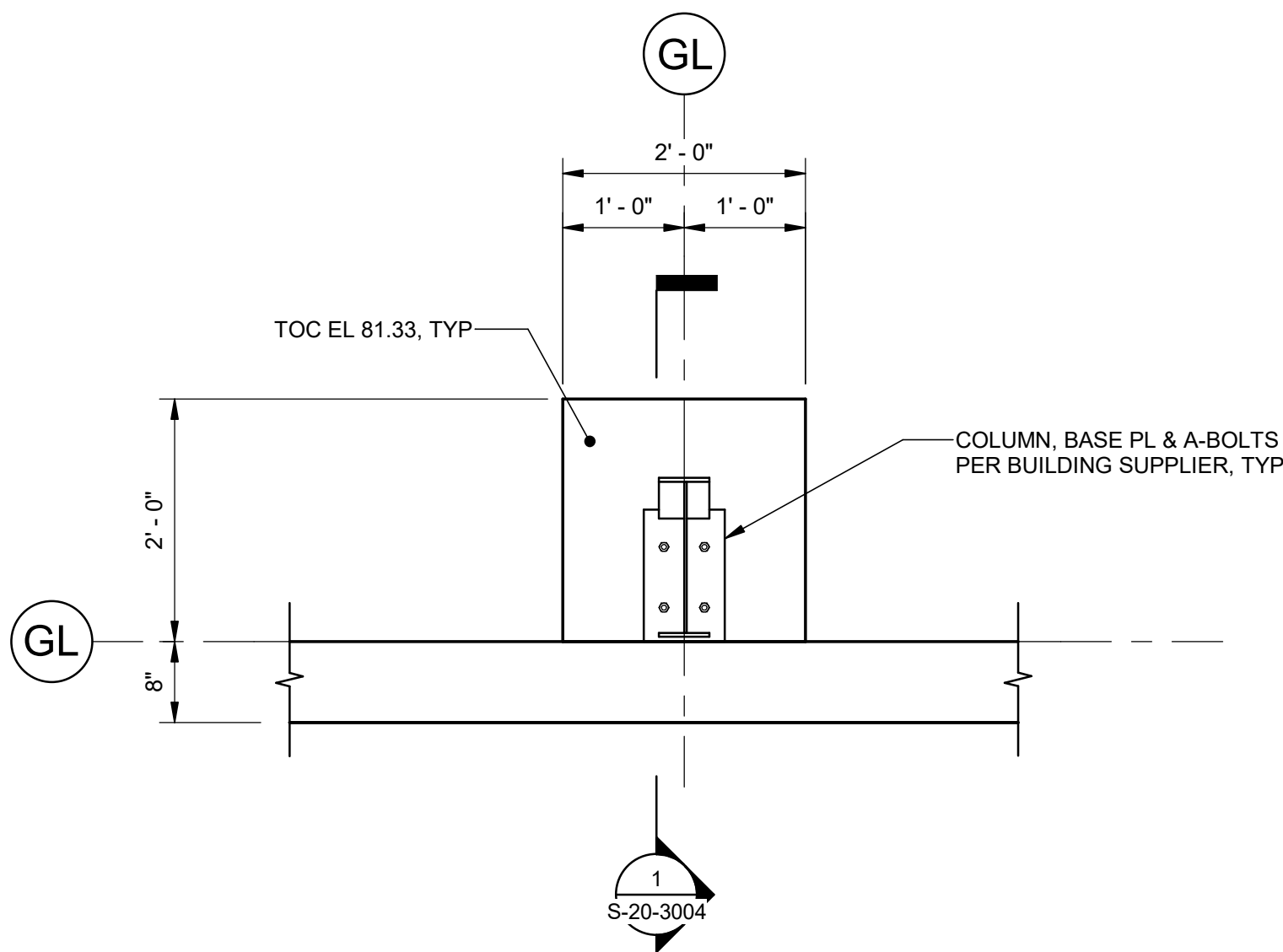
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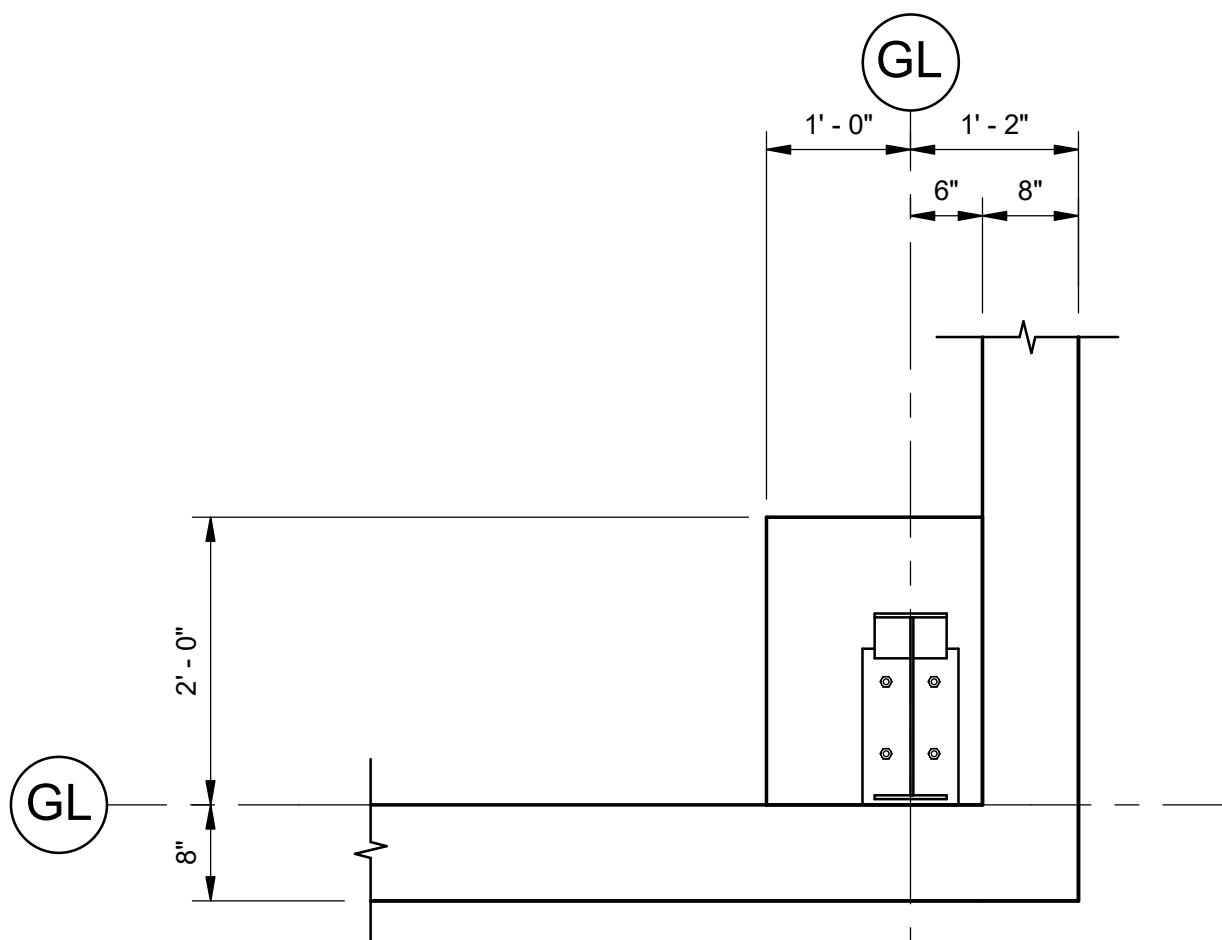
C

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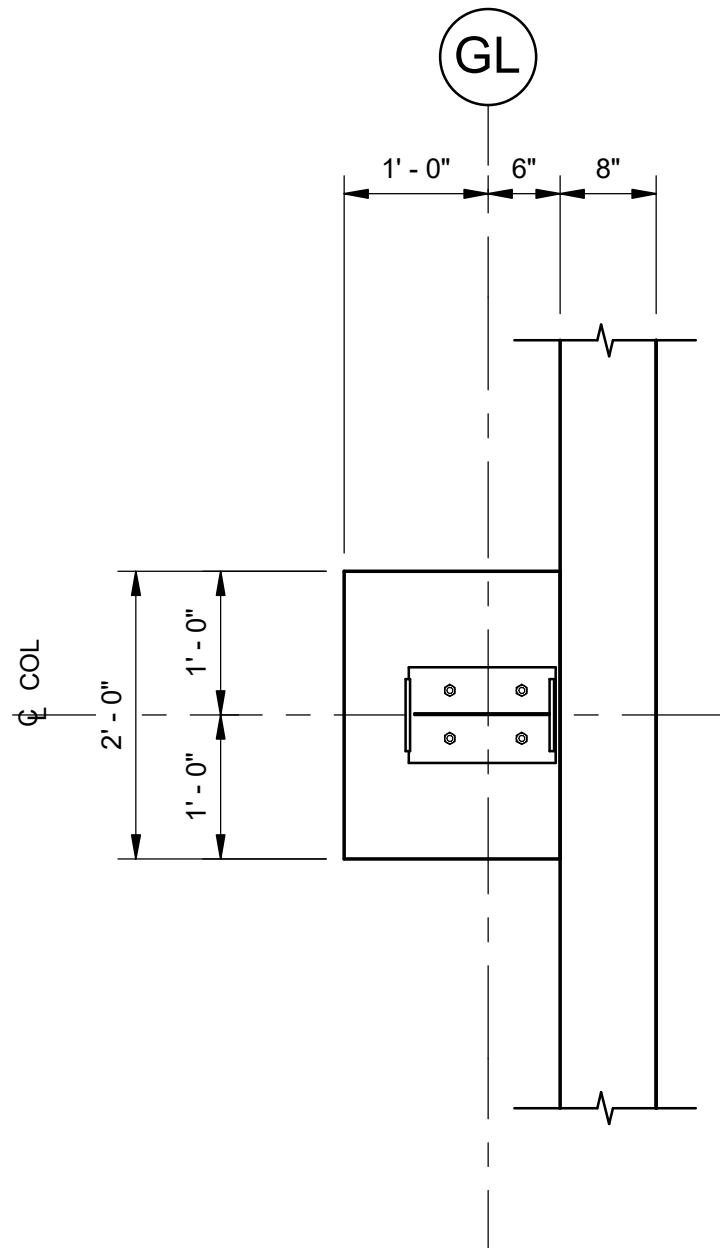
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DETAIL
S-20-1001 SCALE: 3/4" = 1'-0"



DETAIL
S-20-1001 SCALE: 3/4" = 1'-0"



DETAIL
S-20-1001 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

KEYNOTES:

1 SEE SPECIFICATION SECTION 31 23 00



90% DESIGN



Sammamish
Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: R.MANTZ

DRAWN: M.GISSE

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

STRUCTURAL

GAC BUILDING
FOUNDATION
SECTIONS AND
DETAILS 1

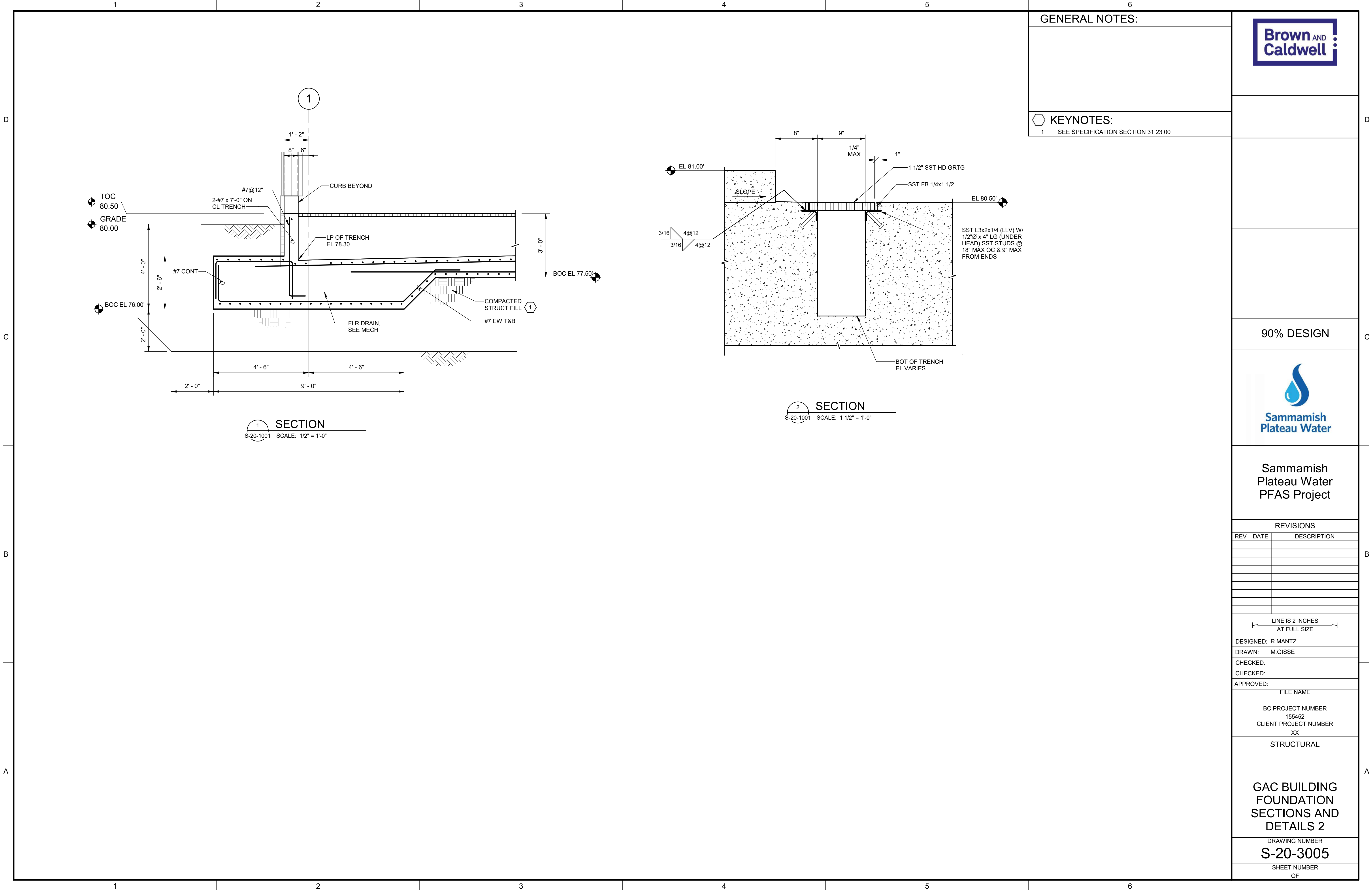
DRAWING NUMBER

S-20-3004

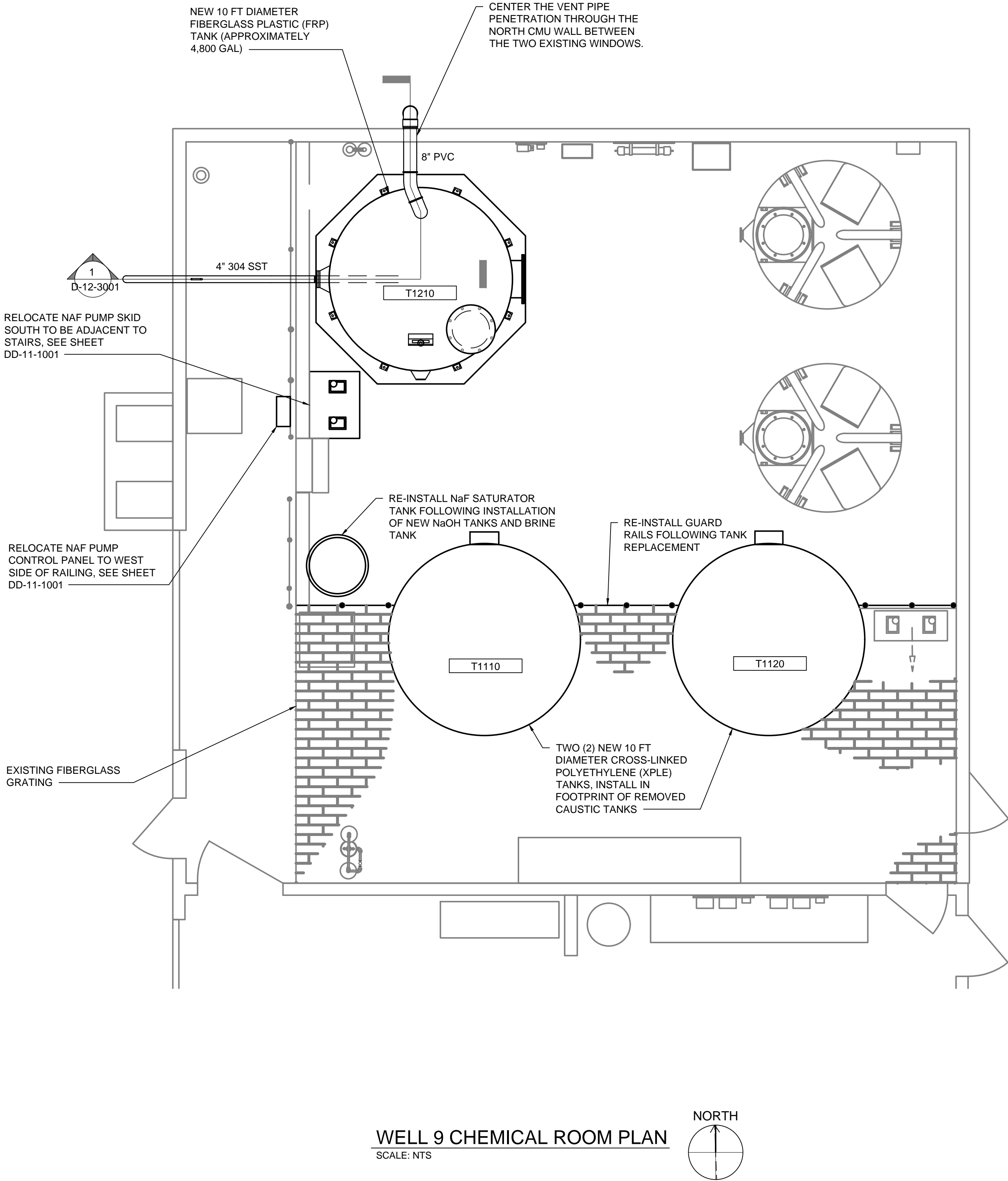
SHEET NUMBER

OF

Plot Date: 12/16/2020 9:44:41 AM Path: BIM 360//155452 - Sammamish Plateau PFAS Design/155452-S-20/19.rvt



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SPW Logo_Square_RGB No TM (2).jpg
Facility Drawing 3 - Well 9 CC Replacement.jpg



GENERAL NOTES:

1. -

KEY NOTES:

KEY PLAN



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: D.ROTH

DRAWN: T.LEMON

CHECKED:

APPROVED:

FILENAME

D-11-1001.dwg

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

PROCESS

WELL 9 CHEMICAL
ROOM PLAN

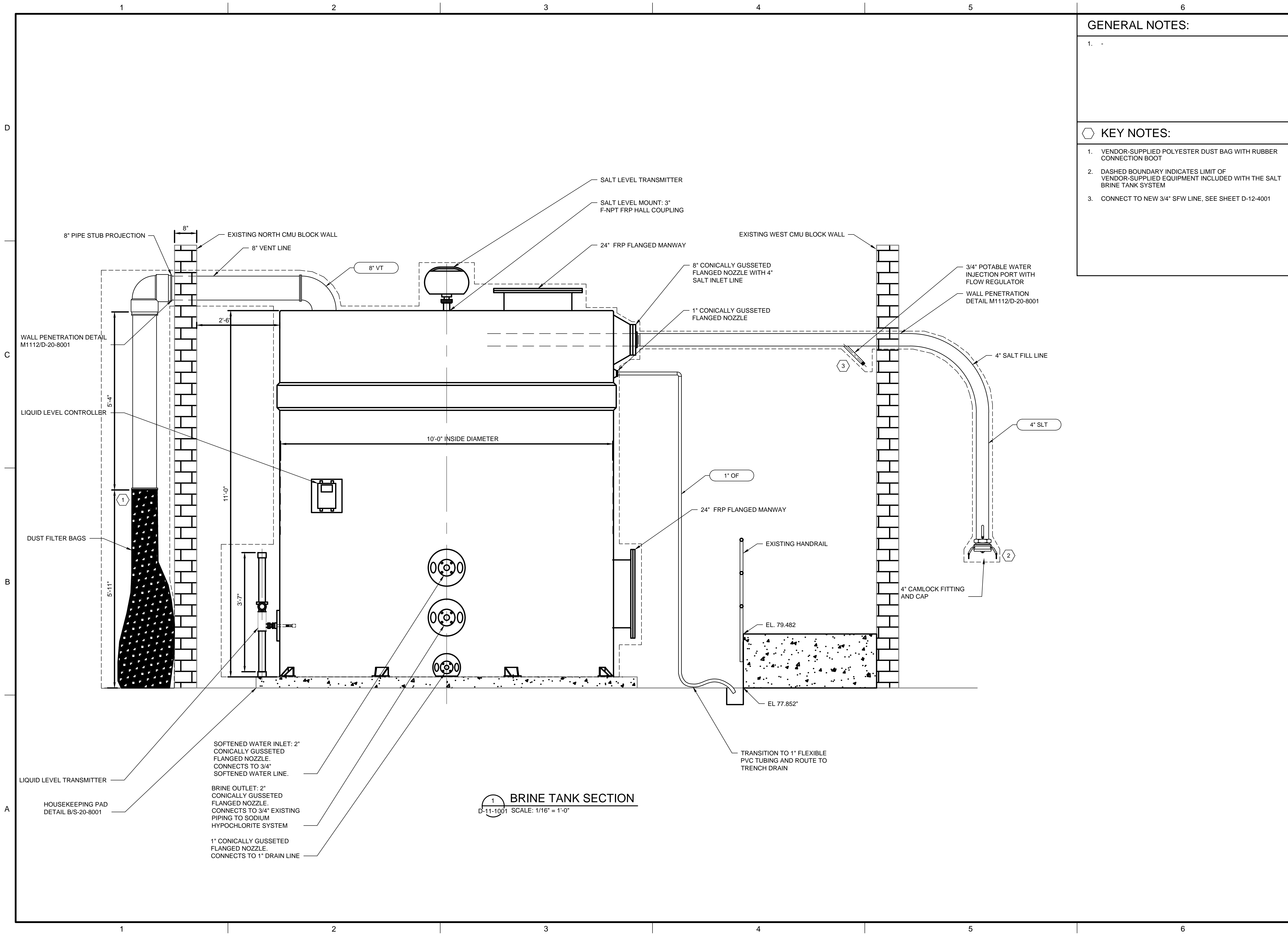
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D-11-1001

SHEET NUMBER

OF

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Wagner Accts.jpg
Path: C:\PW_WORKING\TLEMON\0420877 FILENAME: D-12-3001.DWG PLOT DATE: 12/16/2020 3:37 PM CAD USER: TOM LEMON



GENERAL NOTES:

1. -

KEY NOTES:

- VENDOR-SUPPLIED POLYESTER DUST BAG WITH RUBBER CONNECTION BOOT
- DASHED BOUNDARY INDICATES LIMIT OF VENDOR-SUPPLIED EQUIPMENT INCLUDED WITH THE SALT BRINE TANK SYSTEM
- CONNECT TO NEW 3/4" SFW LINE, SEE SHEET D-12-4001



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: D.ROTH

DRAWN: T.LEMON

CHECKED:

APPROVED:

FILENAME

D-12-3001.dwg

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

PROCESS

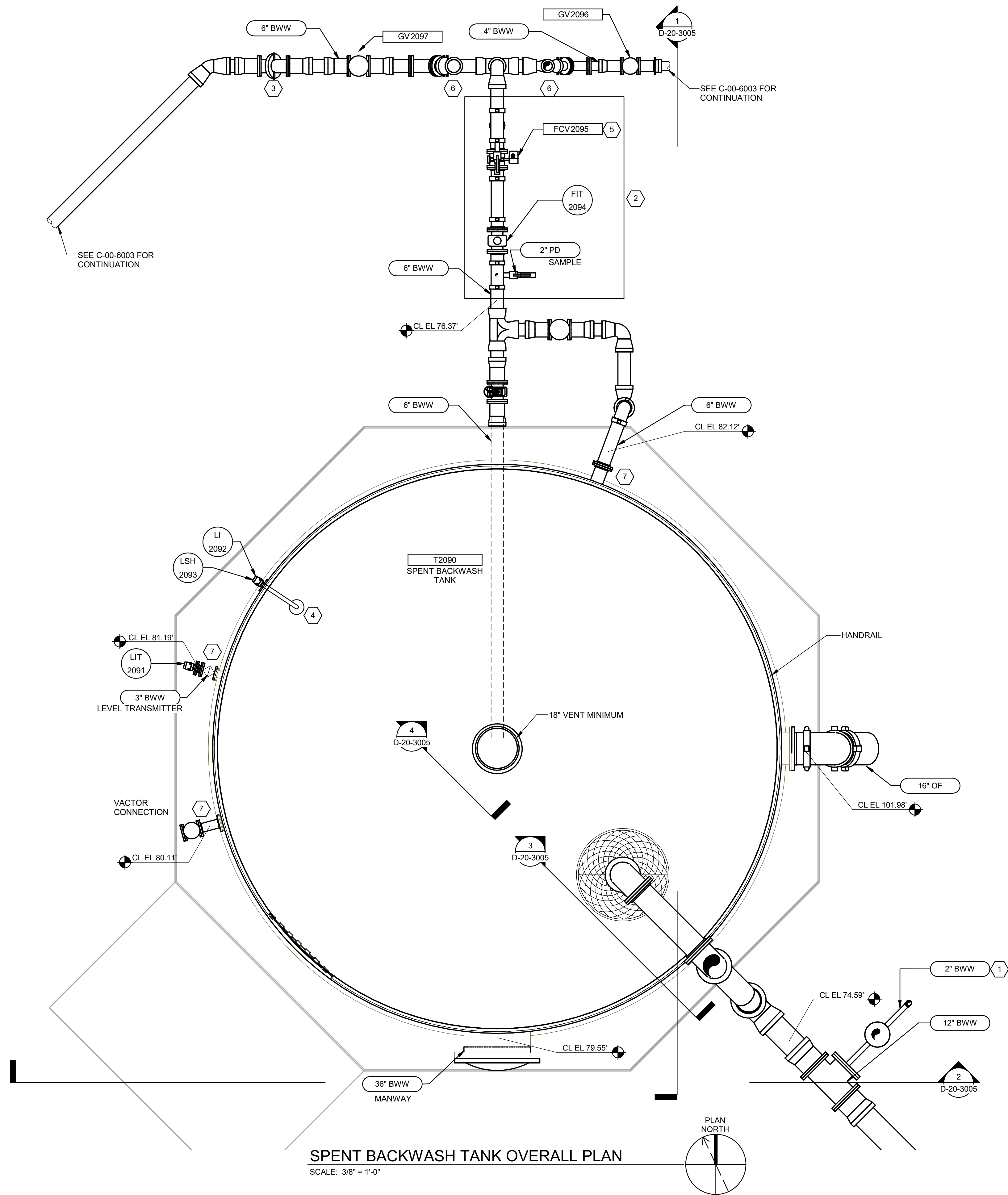
BRINE TANK PIPING
SECTION

DRAWING NUMBER

D-12-3001

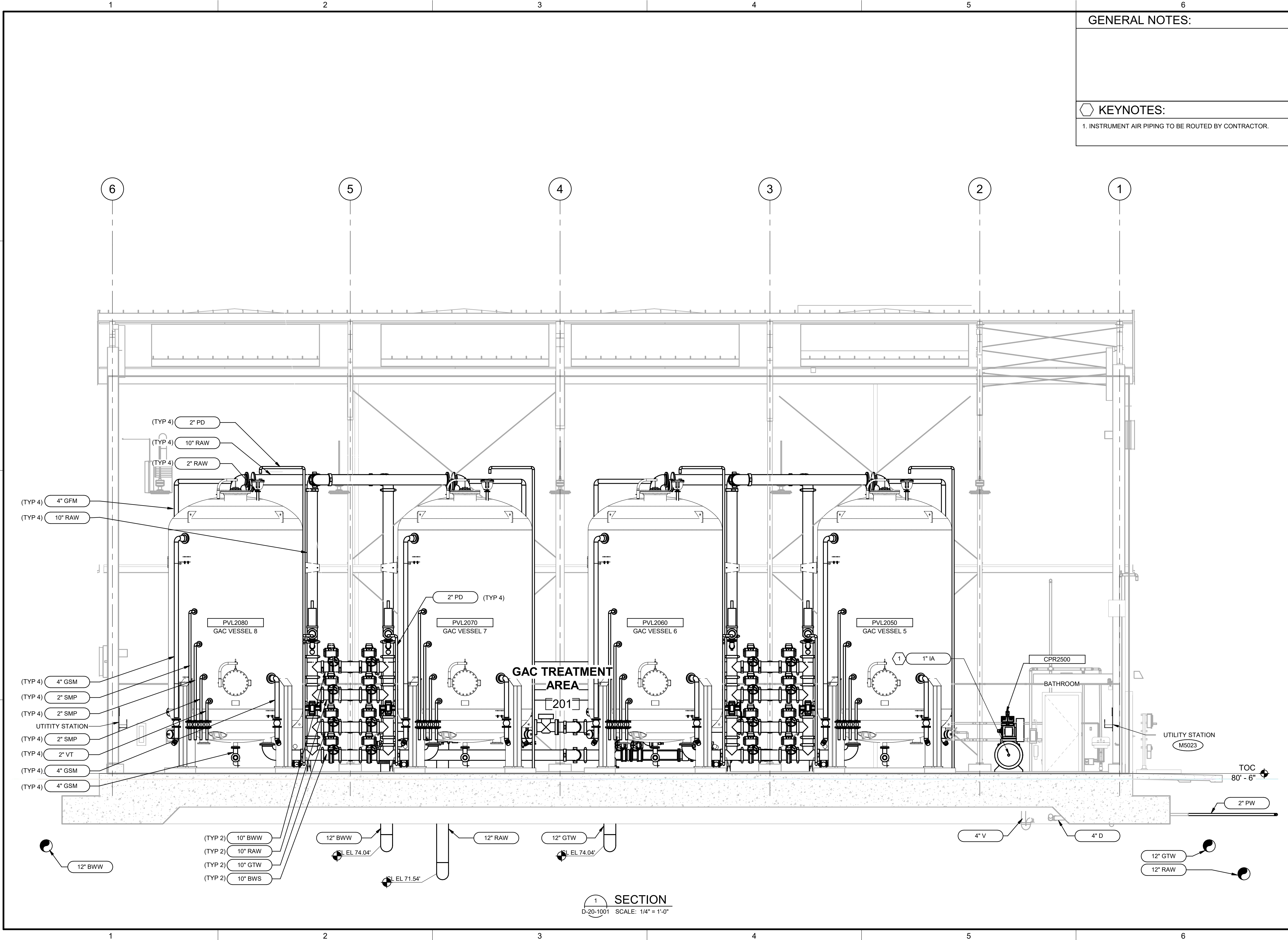
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OF



Plot Date: 12/16/2020 5:05:12 PM Path: BIM 360://155452 - Sammamish Plateau PFAS Design/155452-D-20V19.rvt

Plot Date: 12/17/2020 9:29:03 AM Path: BIN 360/155452 - Sammamish Plateau PFAS Design/155452-D-20V19.rvt



90% DESIGN



Sammamish Plateau
Water
PFAS Design

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

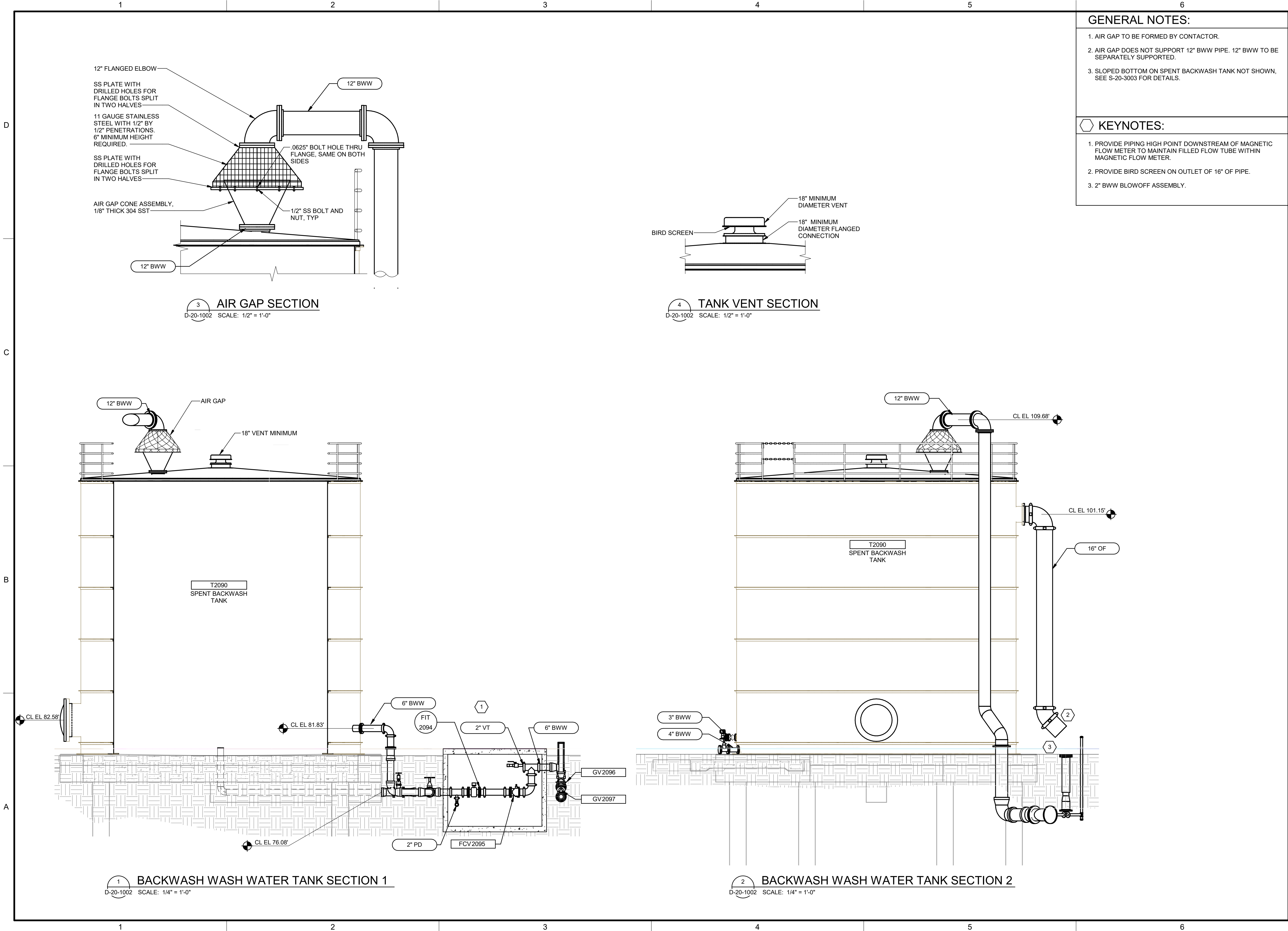
DESIGNED: L STEPHENS
DRAWN: T. LEMON
CHECKED:
APPROVED:

FILE NAME
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER
XX
PROCESS

GAC TREATMENT
SECTION 1

DRAWING NUMBER
D-20-3001
SHEET NUMBER
OF

Plot Date: 12/17/2020 7:01:25 AM Path: BIN 360//155452 - Sammamish Plateau PFAS Design/155452-D-20V19.rvt



90% DESIGN



Sammamish Plateau
Water
PFAS Design

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: L.STEPHENS

DRAWN: T.LEMON

CHECKED:

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

PROCESS

SPENT BACKWASH
TANK SECTIONS

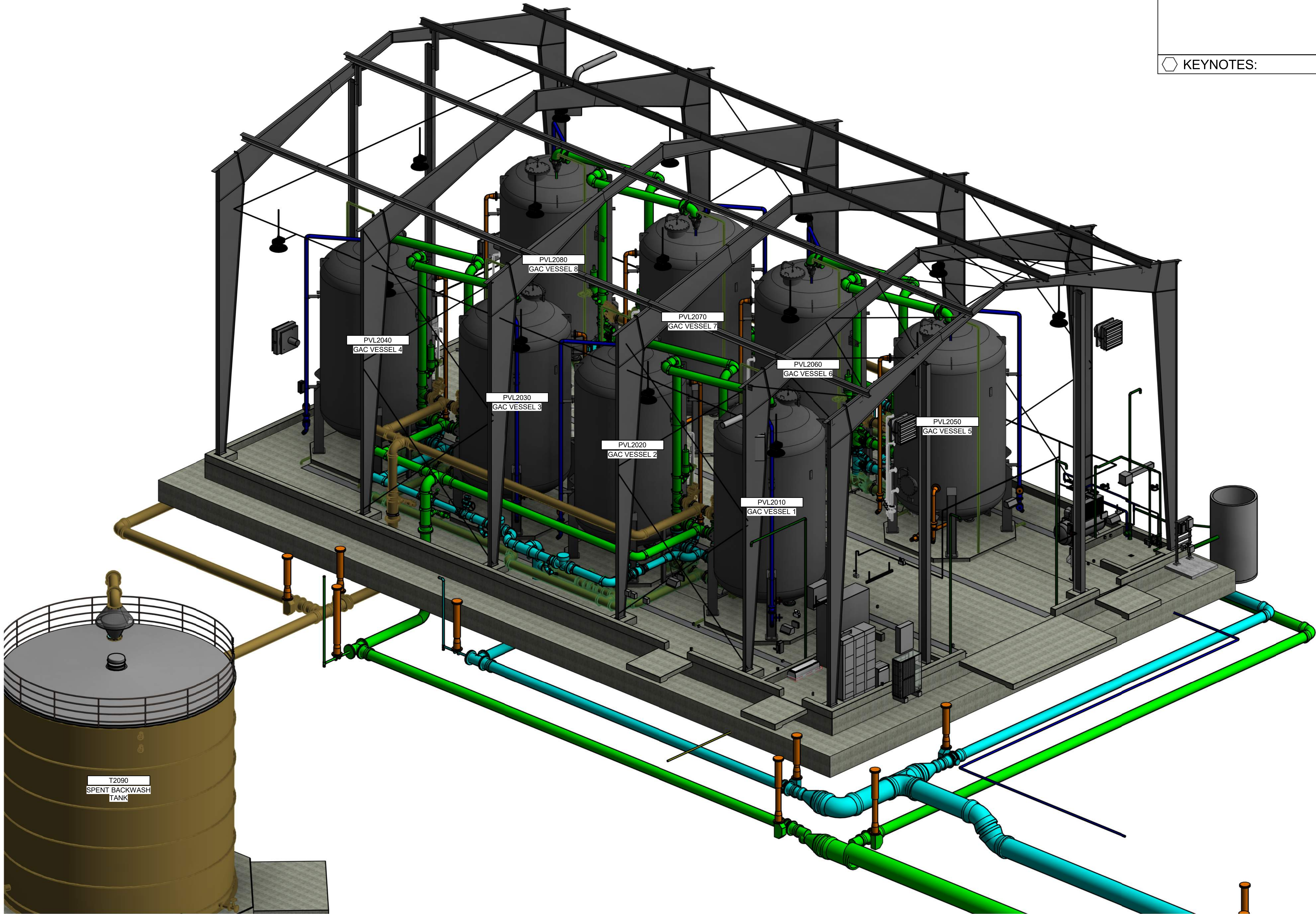
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SHEET NUMBER

OF

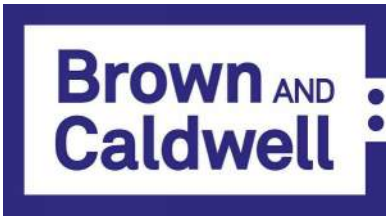
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ISOMETRIC VIEW

GENERAL NOTES:

KEYNOTES:



90% DESIGN



Sammamish Plateau Water
PFAS Design

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: L.STEPHENS

DRAWN: T.LEMON

CHECKED:

APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

PROCESS

GAC TREATMENT
ISOMETRIC VIEW 1

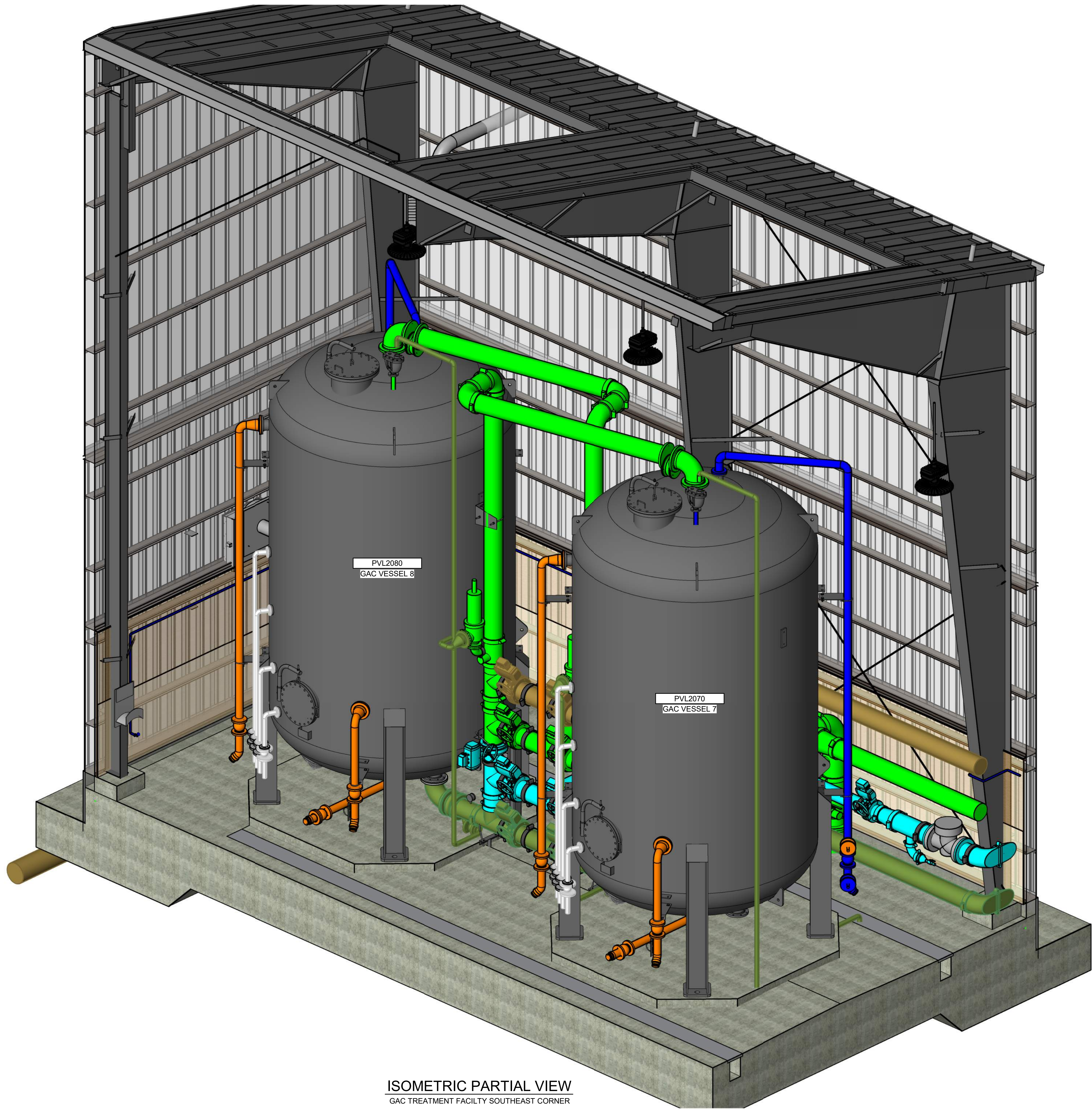
DRAWING NUMBER

D-20-9001

SHEET NUMBER

OF

Plot Date: 12/17/2020 9:31:14 AM Path: BIM 360://155452 - Sammamish Plateau PFAS Design/155452-D-20V19.rvt



ISOMETRIC PARTIAL VIEW
GAC TREATMENT FACILITY SOUTHEAST CORNER

GENERAL NOTES:

KEYNOTES:



90% DESIGN



Sammamish Plateau
Water
PFAS Design

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: L.STEPHENS
DRAWN: T.LEMON
CHECKED:
CHECKED:
APPROVED:

FILE NAME
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER
XX
PROCESS

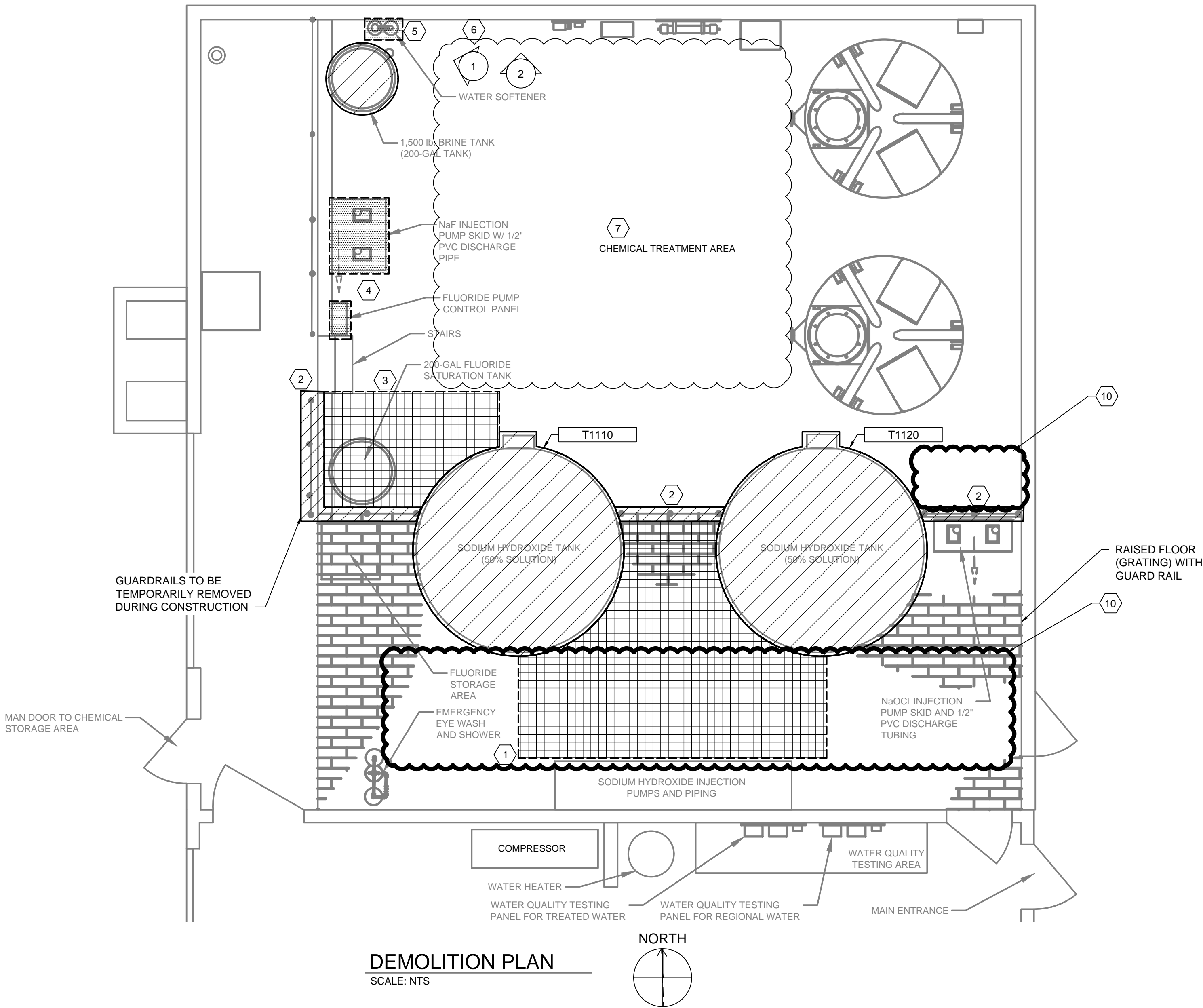
GAC TREATMENT
ISOMETRIC VIEW 2

DRAWING NUMBER
D-20-9002
SHEET NUMBER
OF

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Well 9 North Wall.JPG
SPW Logo Square R 100
Wagner Pictas.jpg

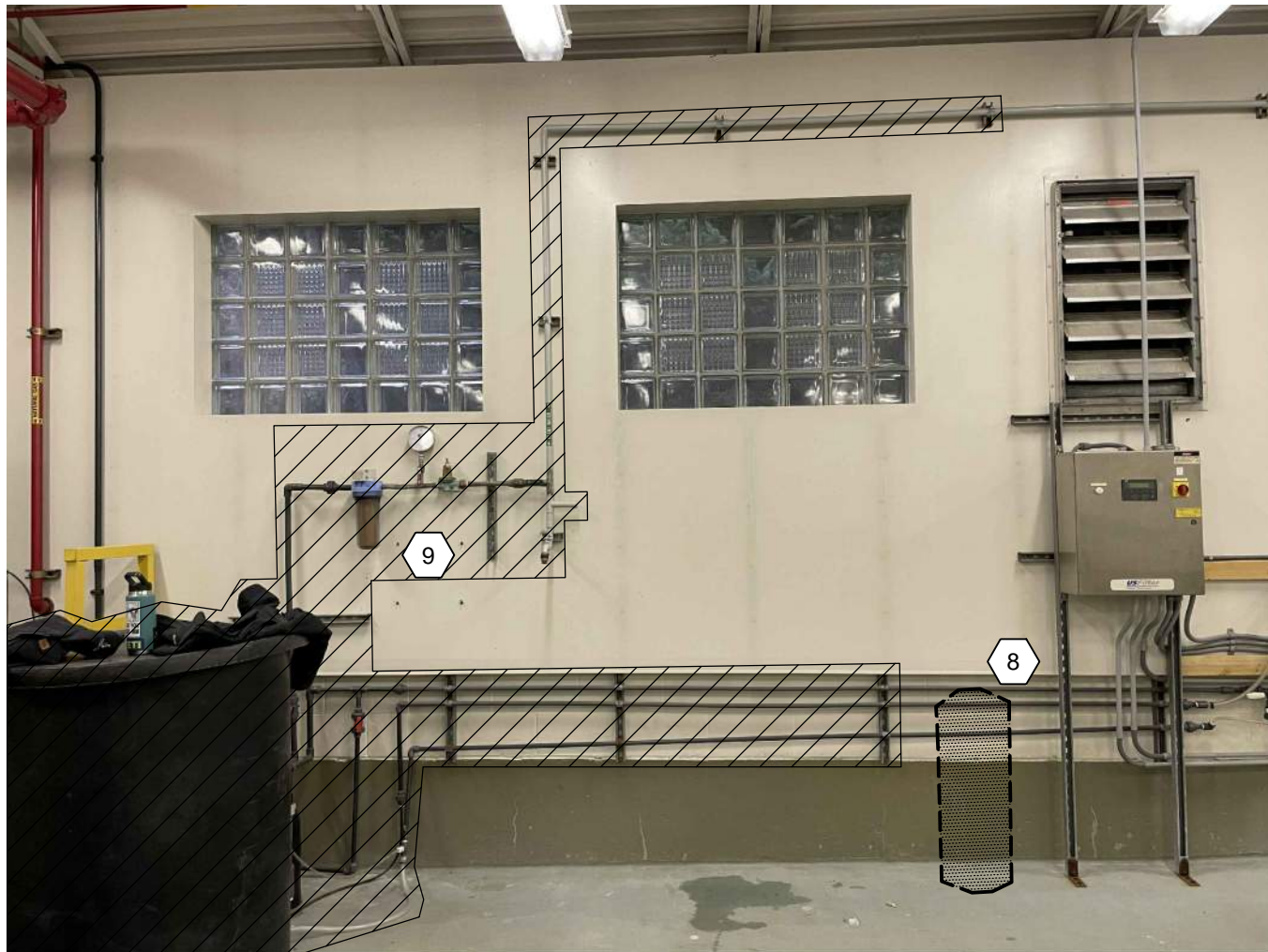
SEQUENCE OF CONSTRUCTION:

1. INSTALL TEMPORARY CHEMICAL TOTES AND TEMPORARY PIPING TO SUPPLY CAUSTIC SODA FEED PUMPS FROM TOTES. TRANSFER REMAINING CAUSTIC SODA FROM TANKS 1110 AND 1120 TO TEMPORARY CHEMICAL TOTES. SEE KEY NOTE 7.
2. DISASSEMBLE AND REMOVE FLUORIDE TANKS, HANDRAILS, AND GRATING TO FACILITATE DEMOLITION OF TANKS 1110 AND 1120. SEE KEY NOTES 2 AND 3.
3. DEMO AND REMOVE TANKS 1110 AND 1120.
4. PATCH EXISTING CONCRETE COATING BELOW FIBERGLASS GRATING AND NEAR HYPO PUMP SKID PER SPEC 90 00 90 AND 90 90 06. SEE PLAN FOR GENERAL AREA WHERE FLOORING PATCH IS REQUIRED. CONTRACTOR TO ATTEND PREBID MEETING TO CONFIRM EXTENT AND METHODS PRIOR TO BID.
5. INSTALL NEW CAUSTIC SODA TANK 1120. SEE SHEET D-11-1001.
6. REPLACE EXISTING PVC PIPING BETWEEN CAUSTIC SODA TANK 1120 AND THE STAINLESS STEEL PIPING ON SUCTION SIDE OF CAUSTIC SODA FEED PUMPS. VERIFY TANK 1120 AND NEW PVC PIPING ARE FUNCTIONAL.
7. TRANSFER REMAINING CAUSTIC SODA FROM TEMPORARY CHEMICAL TOTES TO NEW TANK 1120. REMOVE TEMPORARY CHEMICAL TOTES.
8. RELOCATE EXISTING FLUORIDE PUMP SKID AND CONTROL PANEL. SEE SHEET D-11-1001.
9. REMOVE EXISTING SALT BRINE TANK AND DEMO POTABLE WATER, SOFTENED WATER, AND BRINE PIPING AS INDICATED IN BRINE PIPING DETAIL ON SHEET D-12-4001. RELOCATE EXISTING WATER SOFTENERS.
10. INSTALL NEW SALT BRINE TANK. SEE SHEET D-11-1001.
11. INSTALL NEW CAUSTIC SODA TANK 1110. SEE SHEET D-11-1001.
12. REPLACE EXISTING PVC PIPING BETWEEN CAUSTIC SODA TANK 1110 AND THE STAINLESS STEEL PIPING ON THE SUCTION SIDE OF THE CAUSTIC SODA FEED PUMPS.
13. REPLACE EXISTING CAUSTIC SODA TRANSFER PIPING, TANK VENT PIPING, AND TANK OVERFLOW PIPING. SEE SHEET D-11-4001.
14. REINSTALL EXISTING FLUORIDE SATURATOR TANKS AND HANDRAIL.



CLOSE UP VIEW OF EXISTING SALT BRINE TANK AND WATER SOFTENERS

DEMOLITION PHOTO 1
SCALE: NTS



NORTH WALL ELEVATION VIEW

DEMOLITION PHOTO 2
SCALE: NTS

GENERAL NOTES:

1. DEMOLITION
- TEMPORARILY REMOVE FOR CONSTRUCTION AND REPLACE
- RELOCATE
- TEMPORARY EQUIPMENT STAGING
- APPROXIMATE EXTENT OF COATING WORK

KEY NOTES:

1. REMOVE FIBERGLASS GRATING, AS NEEDED, FOR TANK DEMOLITION AND INSTALLATION AND TO REPLACE CAUSTIC SODA PIPING. REINSTALL FIBERGLASS GRATING WHEN CONSTRUCTION IS COMPLETE.
2. REMOVE HAND RAILS, AS NEEDED, FOR TANK DEMOLITION AND INSTALLATION. REINSTALL HAND RAILS FOLLOWING INSTALLATION OF THE CAUSTIC SODA TANKS AND SALT BRINE SYSTEM.
3. DISASSEMBLE AND RELOCATE FLUORIDE SATURATOR TANKS PRIOR TO CAUSTIC SODA TANK DEMOLITION. REINSTALL FLUORIDE SATURATOR TANKS FOLLOWING INSTALLATION OF CAUSTIC SODA TANKS AND SALT BRINE SYSTEM.
4. RELOCATE FLUORIDE PUMP SKID AND CONTROL PANEL PRIOR TO INSTALLATION OF THE SALT BRINE SYSTEM. SEE SHEET D-11-1001 FOR NEW EQUIPMENT LOCATION.
5. RELOCATE WATER SOFTENERS PRIOR TO INSTALLATION OF THE SALT BRINE SYSTEM. SEE SHEET D-11-1001 DEMOLITION PHOTO 2 ON THIS SHEET FOR NEW EQUIPMENT LOCATION.
6. DEMOLISH PIPING POTABLE WATER, SOFTENED WATER, AND BRINE PIPING ON NORTH WALL PRIOR TO INSTALLATION OF THE SALT BRINE SYSTEM. SEE DEMOLITION PHOTO 2 ON THIS SHEET FOR LIMITS OF DEMOLITION.
7. AVAILABLE FOOTPRINT FOR TEMPORARY CHEMICAL TOTES TO BE USED FOR CAUSTIC SODA STORAGE AND FEED DURING DEMOLITION OF CAUSTIC SODA TANKS T1110 AND T1120.
8. REMOVE EXISTING WATER SOFTENERS AND RELOCATE TO AREA INDICATED IN THE NORTH WALL ELEVATION VIEW. SEE FOR NEW PIPING CONNECTIONS.
9. RELOCATE EXISTING FILTER-PRESSURE GAUGE-PRV-TAP ASSEMBLY AS INDICATED IN BRINE PIPING DETAIL ON SHEET D-12-4001.
10. APPROXIMATE AREA OF SECONDARY CONTAINMENT FLOORING THAT NEEDS PATCHING. PATCH FLOOR WITH NEW COATING PER SPEC 90 00 90 AND 90 90 06. CONTRACTOR TO ATTEND PREBID MEETING TO CONFIRM EXTENT AND METHODS PRIOR TO BID.



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: D.ROTH

DRAWN: T.LEMON

CHECKED:

CHECKED:

APPROVED:

FILENAME

DD-11-1001.dwg

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

PROCESS

DEMOLITION PLAN
FOR WELL 9
CHEMICAL ROOM

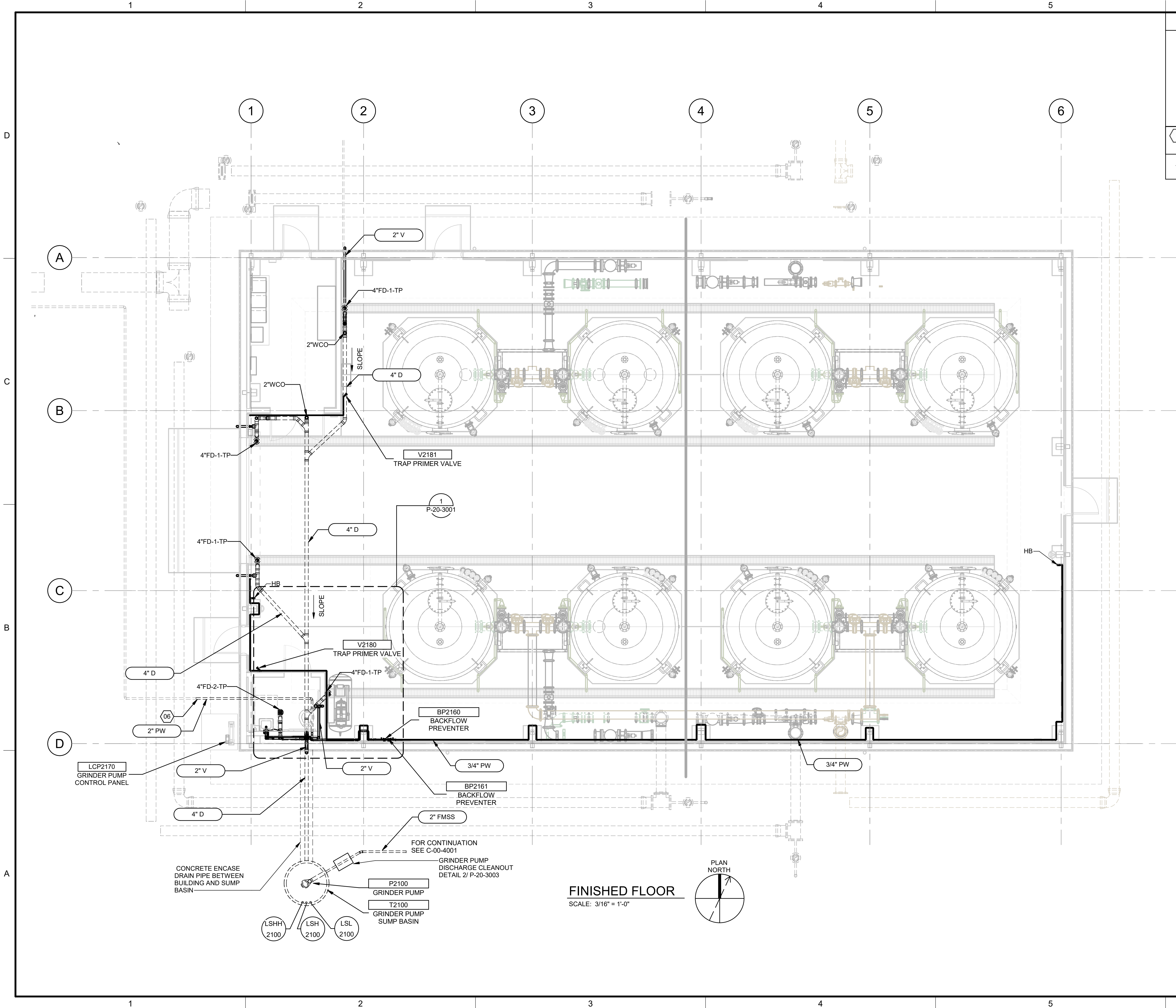
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DD-11-1001

SHEET NUMBER

OF

Plot Date: 12/16/2020 3:06:08 PM Path: BIN 360//155452 - Sammamish Plateau PFAS Design/155452-M-20V19.rvt



GENERAL NOTES:

KEYNOTES:

1. FOR CONTINUATION, SEE C-00-4001.



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.RICE
DRAWN: K.RICE
CHECKED: D.STEWART
CHECKED:
APPROVED: T.GATLIN

FILE NAME

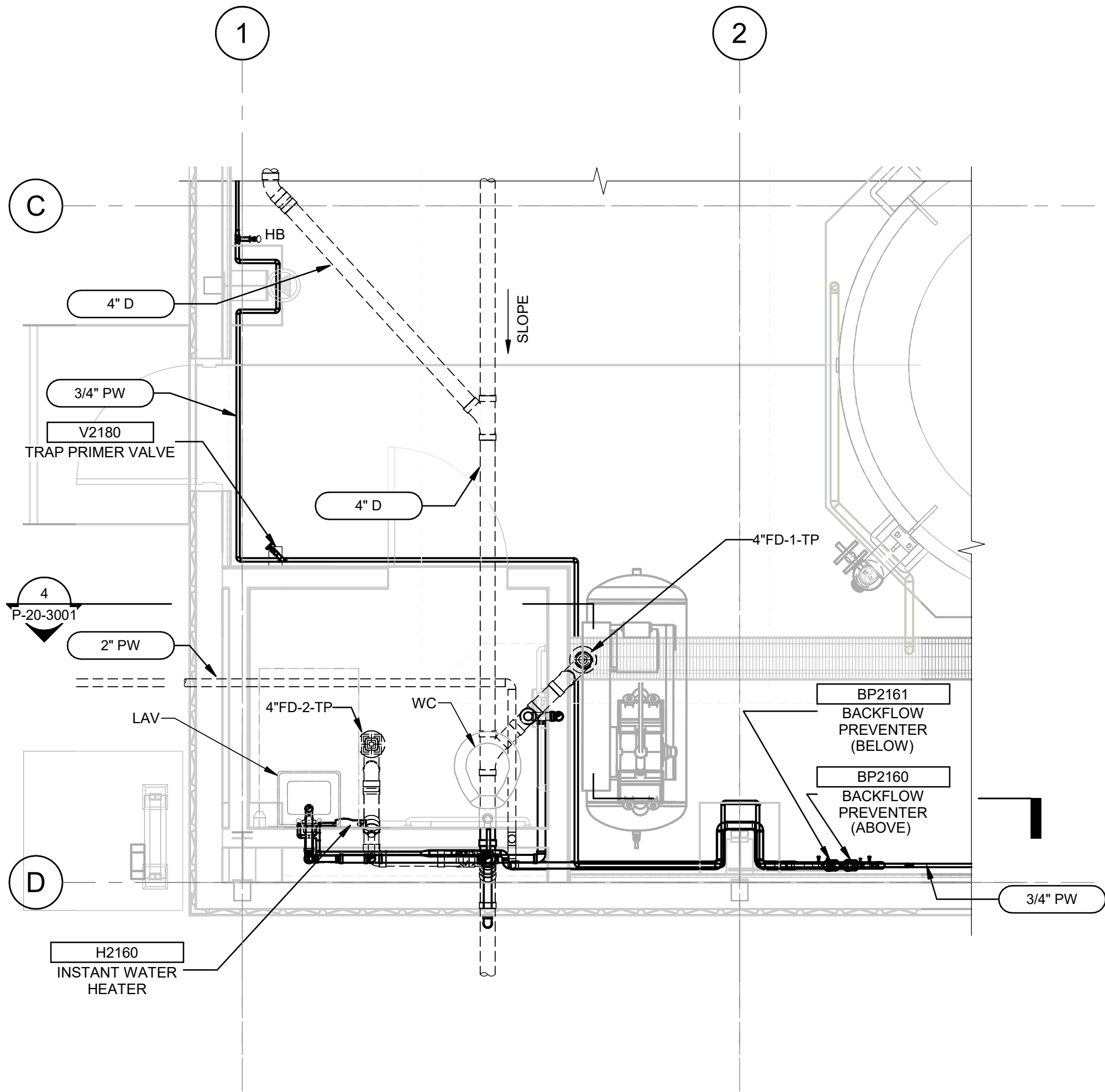
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER
XX

PLUMBING

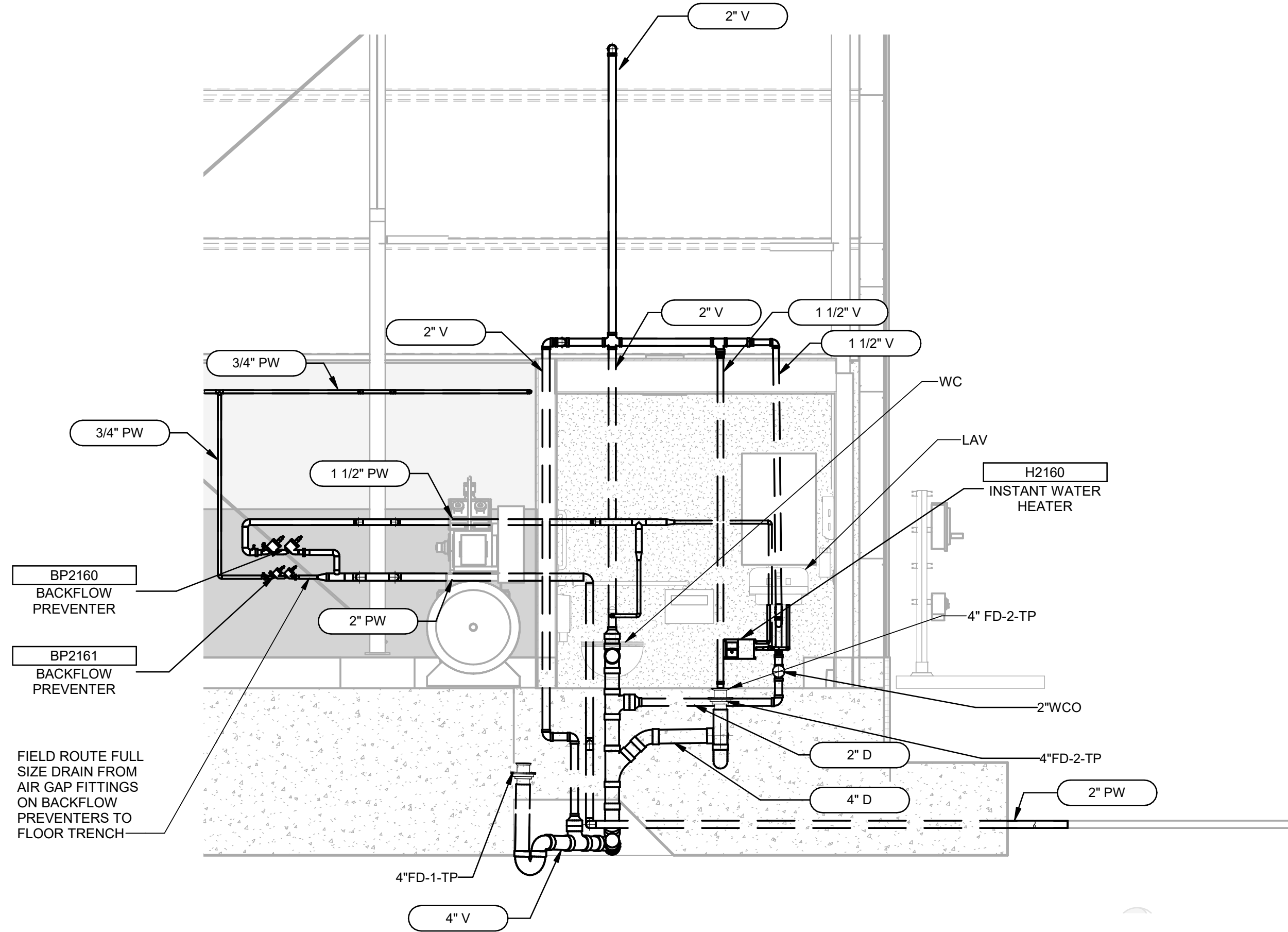
GAC BUILDING
PLUMBING FLOOR
PLAN

DRAWING NUMBER
P-20-1001
SHEET NUMBER
OF

Plot Date: 12/16/2020 3:06:13 PM Path: B:\M 360\155452 - Sammamish Plateau PFAS Design\155452-M-20-V19.rvt



1 RESTROOM
M-20-3001 SCALE: 3/8" = 1'-0"



3 SECTION
P-20-3001 SCALE: 3/8" = 1'-0"



90% DESIGN



Sammamish
Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.RICE
DRAWN: K.RICE
CHECKED: D.STEWART
APPROVED: T.GATLIN

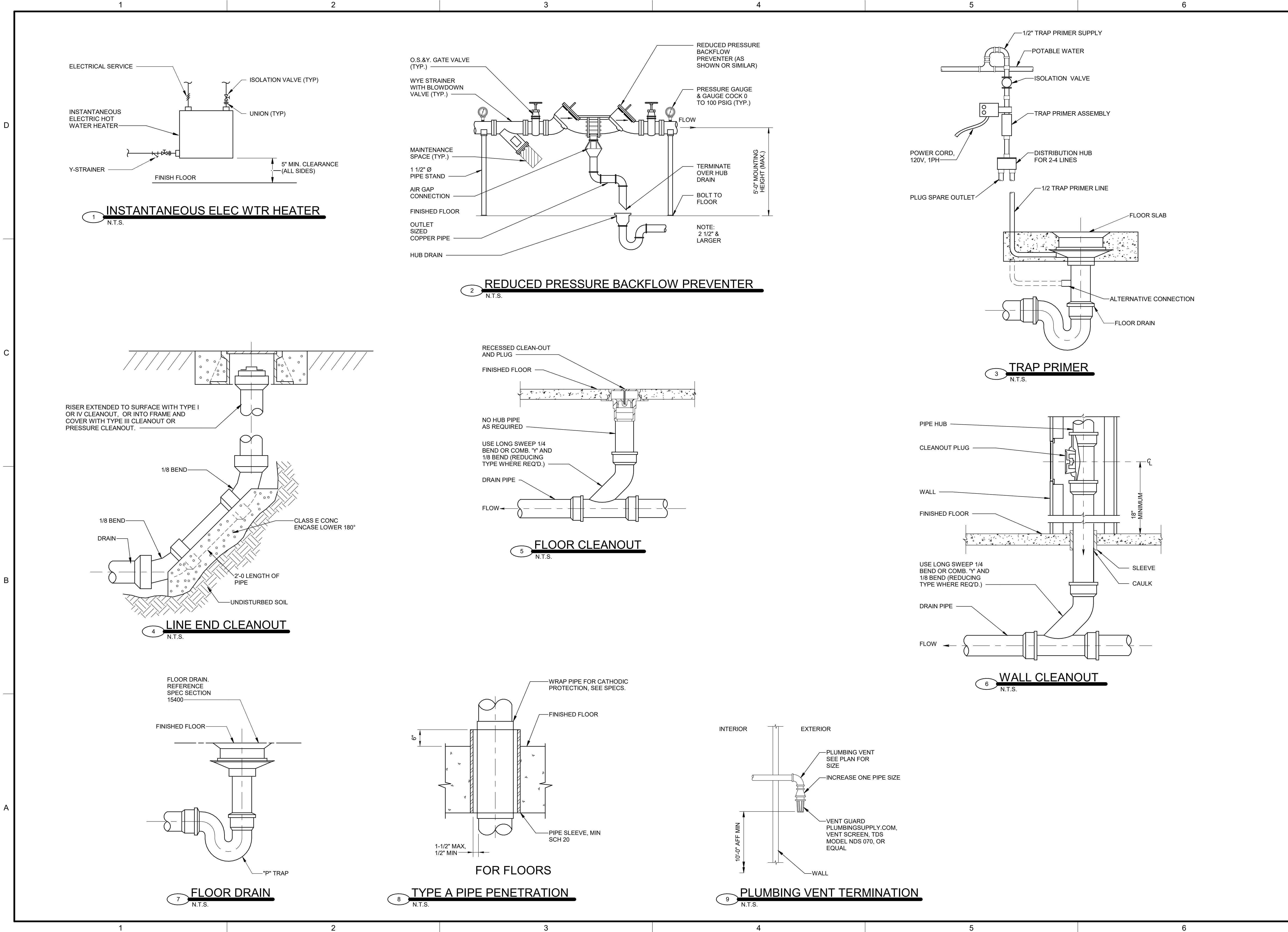
FILE NAME

BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER
XX

PLUMBING

GAC PLUMBING
PARTIAL PLANS AND
SECTIONS

DRAWING NUMBER
P-20-3001
SHEET NUMBER
OF



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.RICE
DRAWN: K.RICE
CHECKED: D.STEWART
APPROVED: T.GATLIN

FILE NAME
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER
XX

PLUMBING

PLUMBING DETAILS

DRAWING NUMBER
P-20-3002
SHEET NUMBER
OF



**Brown AND
Caldwell**



Sammamish
Plateau Water
PFAS Project

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.RICE
DRAWN: K.RICE
CHECKED: D.STEWART
CHECKED:
APPROVED: T.GATLIN

BC PROJECT NUMBER	155452
CLIENT PROJECT NUMBER	XX

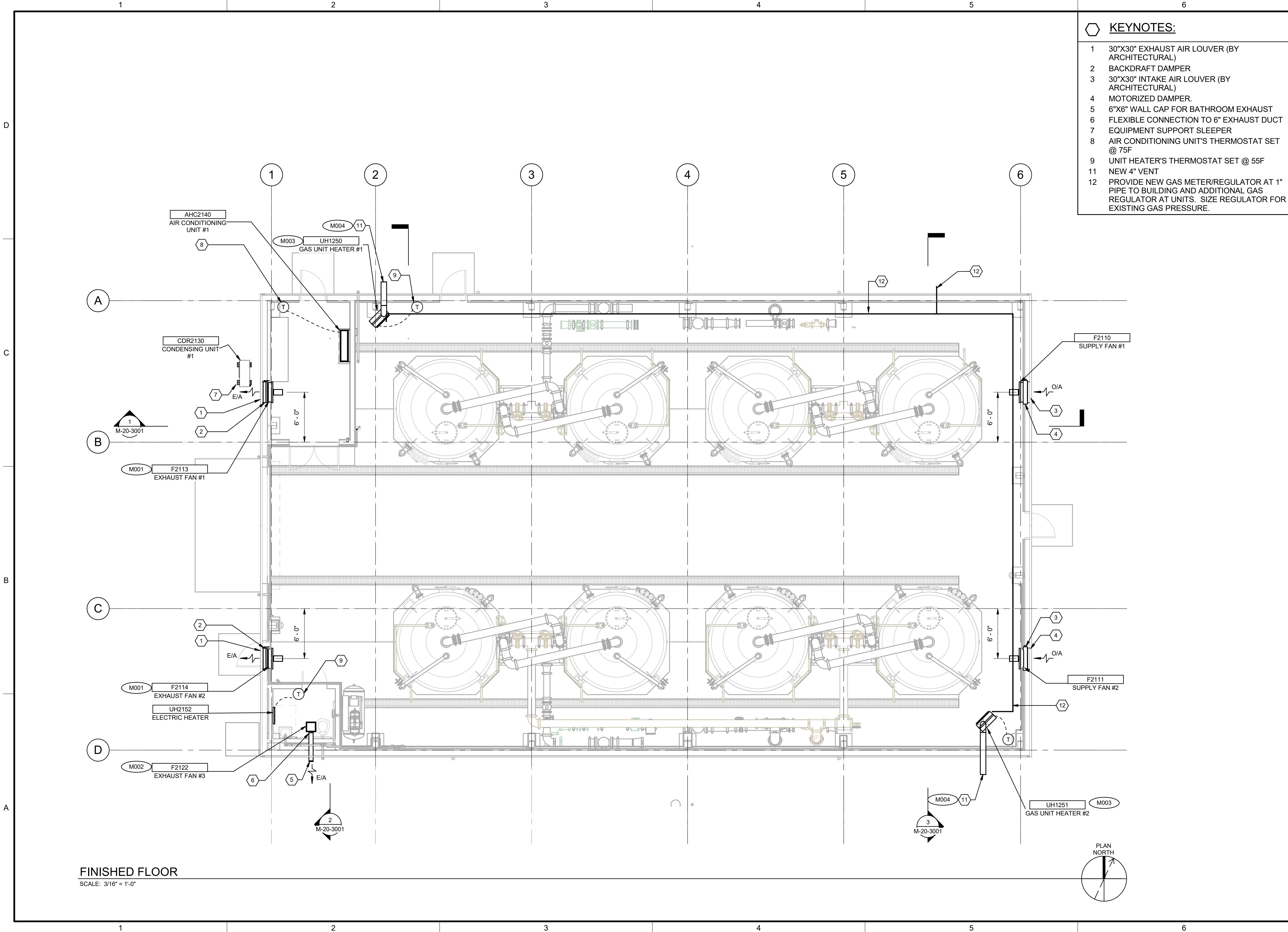
PLUMBING DETAILS

DRAWING NUMBER
P-20-3003
SHEET NUMBER
OF

Plot Date: 12/16/2020 9:05:18 PM Path: BIM 360://155452 - Sammamish Plateau PFAS Design/155452-M-20V19.rvt

1		2		3		4		5		6		
STANDARD HVAC DESIGNATIONS		FLOW SCHEMATIC SYMBOLS								GENERAL NOTES		
D				CENTRIFUGAL FAN								
				PROPELLER FAN								
				BACKDRAFT DAMPER								
				PARTICULATE FILTER								
				CHEMICAL FILTER								
C				PARALLEL BLADE DAMPER								
				OPPOSED BLADE DAMPER								
				MOTORIZED DAMPER								
				LOUVER								
				ROOF EXHAUST FAN, PROPELLER OR CENTRIFUGAL TYPE								
B				HOT WATER HEATING COIL								
				DIRECT EXPANSION COIL								
				ELECTRIC UNIT HEATER								
				IN-LINE FAN								

Plot Date: 12/16/2020 9:04:52 PM Path: BIM 360//155452 - Sammamish Plateau PFAS Design/155452-M-20V19.rvt



- KEYNOTES:**
- 30"X30" EXHAUST AIR LOUVER (BY ARCHITECTURAL)
 - BACKDRAFT DAMPER
 - 30"X30" INTAKE AIR LOUVER (BY ARCHITECTURAL)
 - MOTORIZED DAMPER.
 - 6"X6" WALL CAP FOR BATHROOM EXHAUST
 - FLEXIBLE CONNECTION TO 6" EXHAUST DUCT
 - EQUIPMENT SUPPORT SLEEPER
 - AIR CONDITIONING UNIT'S THERMOSTAT SET @ 75F
 - UNIT HEATER'S THERMOSTAT SET @ 55F
 - NEW 4" VENT
 - PROVIDE NEW GAS METER/REGULATOR AT 1" PIPE TO BUILDING AND ADDITIONAL GAS REGULATOR AT UNITS. SIZE REGULATOR FOR EXISTING GAS PRESSURE.



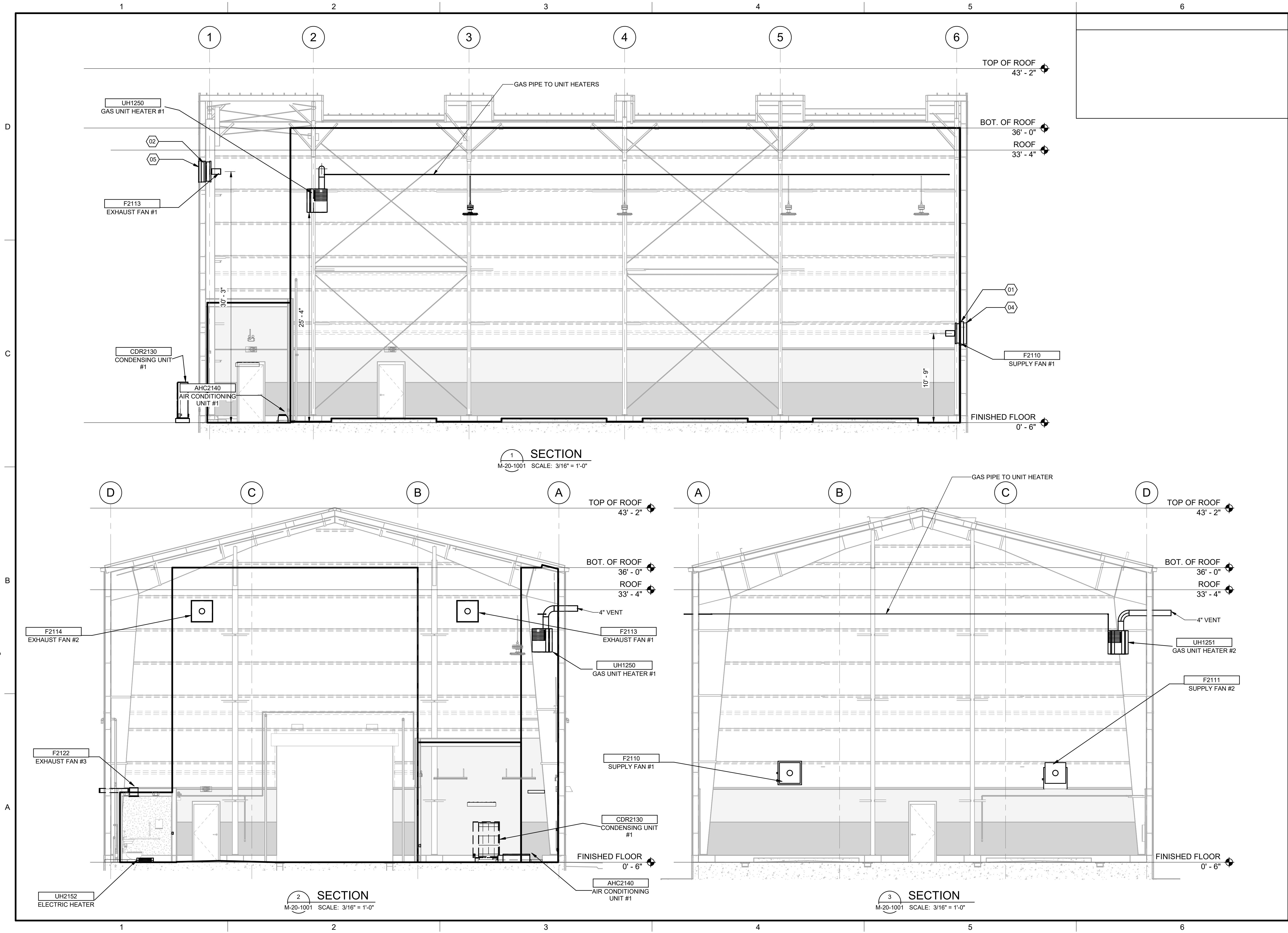
90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS		
REV	DATE	DESCRIPTION
LINE IS 2 INCHES AT FULL SIZE		
DESIGNED: K.RICE		
DRAWN: K.RICE		
CHECKED: D.STEWART		
CHECKED:		
APPROVED: T.GATLIN		
FILE NAME		
BC PROJECT NUMBER		
155452		
CLIENT PROJECT NUMBER		
XX		
HVAC		
GAC BUILDING HVAC FLOOR PLAN		
DRAWING NUMBER		
M-20-1001		
SHEET NUMBER		
OF		

Plot Date: 12/16/2020 9:04:54 PM Path: BIN 360/1/155452 - Sammamish Plateau PFAS Design/155452.M-20V19.rvt



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

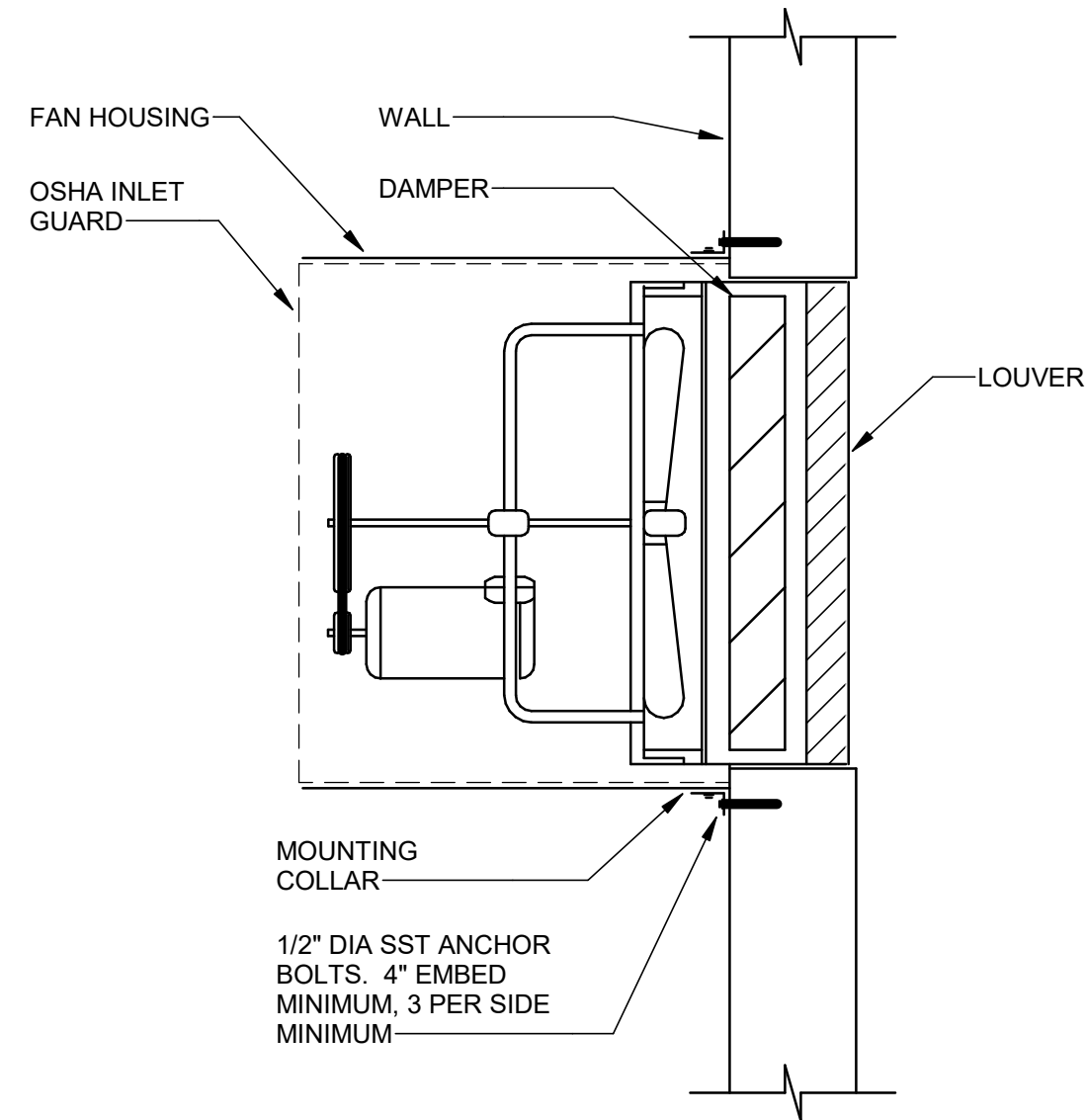
DESIGNED: K.RICE
DRAWN: K.RICE
CHECKED: D.STEWART
APPROVED: T.GATLIN

FILE NAME
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER
XX
HVAC

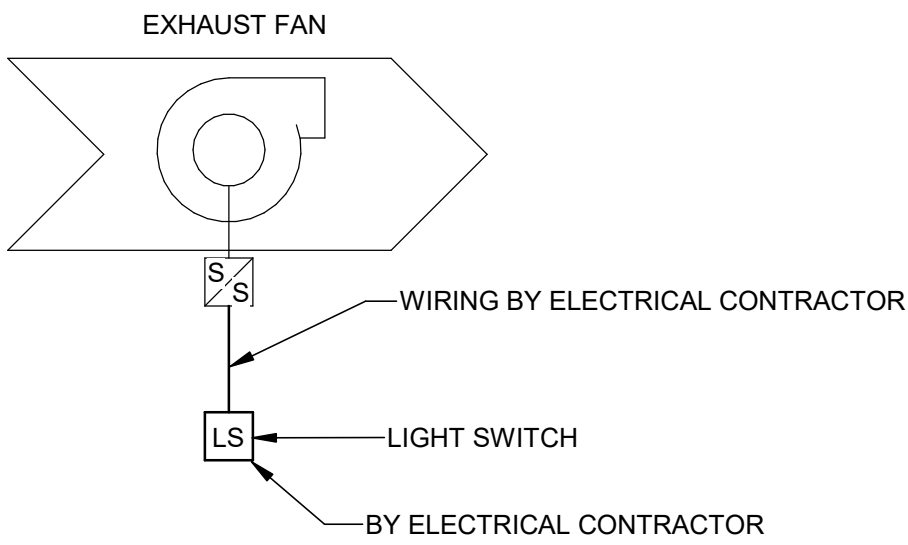
HVAC SECTIONS

DRAWING NUMBER
M-20-3001
SHEET NUMBER
OF

D

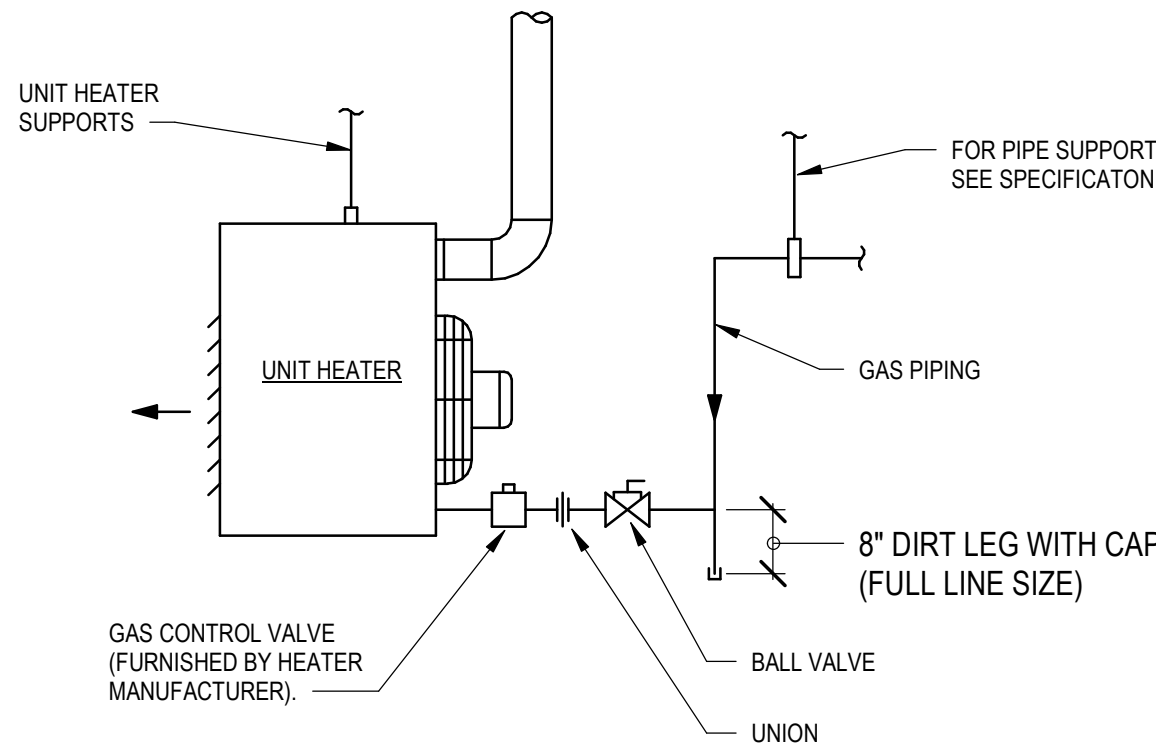


M001
N.T.S.
PROPELLER WALL FAN

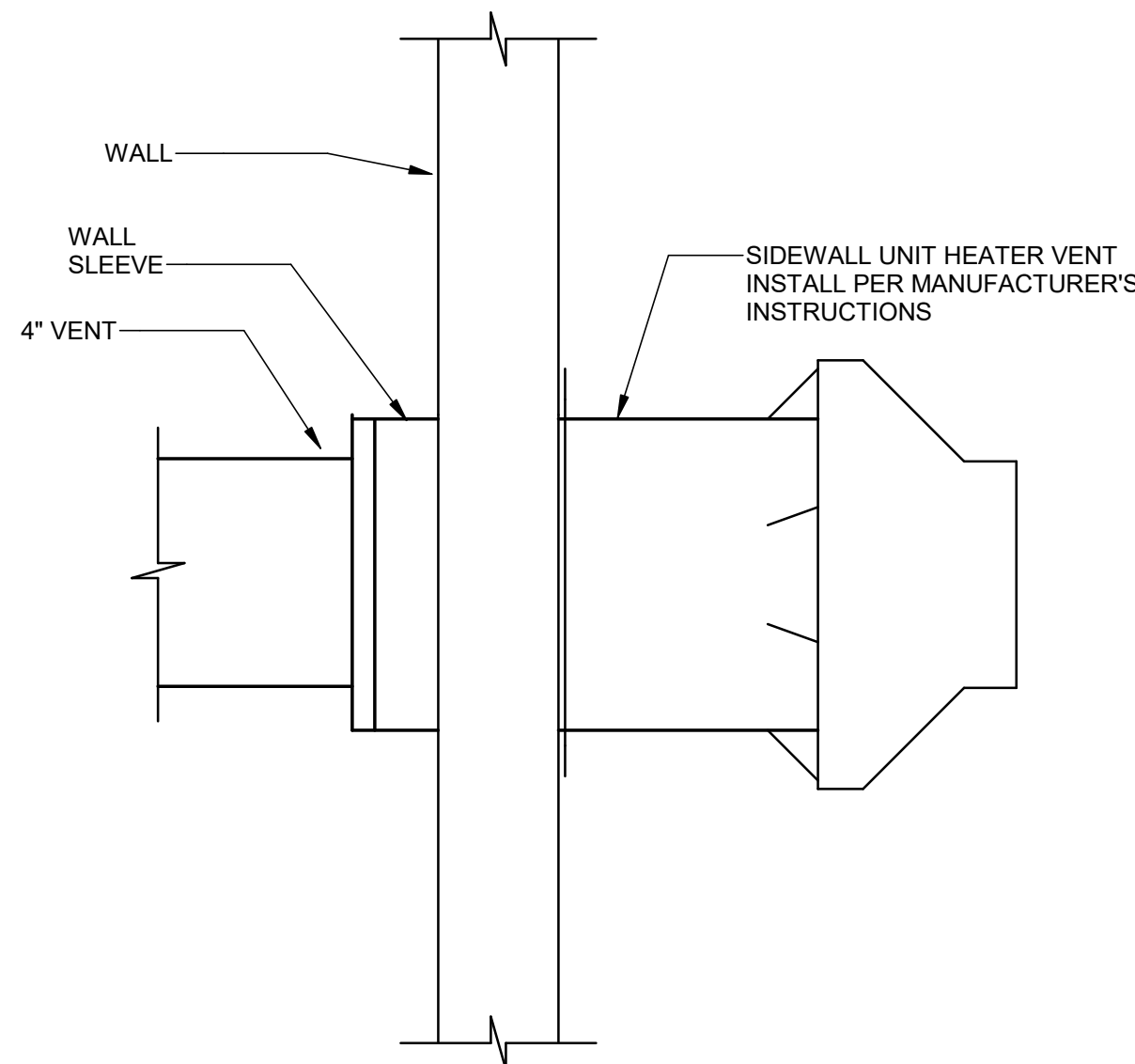


SEQUENCE OF OPERATION
UNDER NORMAL OPERATING CONDITIONS, THE EXHAUST FAN SHALL BE ENABLED BY INTERLOCKED LIGHT SWITCH AND RUN AT SCHEDULED SPEED TO PROVIDE REQUIRED AIRFLOW FOR VENTILATION. MAKE-UP AIR PROVIDED THRU DOOR UNDERCUT.

M002
N.T.S.
TOILET EXHAUST FAN



M003
N.T.S.
GAS FIRED UNIT HEATER



M004
N.T.S.
SIDEWALL VENT DETAIL



90% DESIGN



Sammamish
Plateau Water
PFAS Project

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.RICE

DRAWN: K.RICE

CHECKED: D.STEWART

CHECKED:

APPROVED: T.GATLIN

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

XX

HVAC

HVAC DETAILS

DRAWING NUMBER

M-20-3002

SHEET NUMBER

OF



Sammamish Plateau Water PFAS Project

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: K.RICE
DRAWN: K.RICE
CHECKED: D.STEWART
CHECKED:
APPROVED: T.GATLIN

FILENAME
M-20-5001.dwg
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

HVAC

AIRFLOW DIAGRAM

DRAWING NUMBER
1-20-5001
SHEET NUMBER
OF

Path: C:\USERS\KRICE\1\APPD\DATA\LOCAL\BENTLEY\PROJECT\WISE\WORKING\DIR\BRVNCALD-PW.BENTLEY.COM_BRVNCALD-PW\01\KRICE1\@BRVNCALD.COM\04\20879 FILENAME: M-20-7001.DWG PLOT DATE: 12/17/2020 7:33 AM CAD USER: KEITH RICE

FAN SCHEDULE													
ID	BASIS OF DESIGN	LOCATION	AREA SERVED	TYPE	AIR			ELECTRICAL			PHYSICAL		NOTES
					AIRFLOW (CFM)	TEMP. DB (°F)	STATIC PRESSUR E DROP (IN H2O)	MOTOR SIZE (HP)	BRAKE HP	VOLT/PH	LxWxH (IN)	WEIGHT (LBS)	
F2110	SS2-16-423-VG	TANK ROOM	TANK ROOM	WALL MOUNTED	825	86	0.75	0.75	0.46	460/3			
F2111	SS2-16-423-VG	TANK ROOM	TANK ROOM	WALL MOUNTED	825	86	0.75	0.75	0.46	460/3			
F2120	SE1-14-436-VG	TANK ROOM	TANK ROOM	WALL MOUNTED	800	86	0.25	0.5	0.11	115/1			
F2121	SE1-14-436-VG	TANK ROOM	TANK ROOM	WALL MOUNTED	800	86	0.25	0.5	0.11	115/1			

DUCTLESS SPLIT																		
ID	BASIS OF DESIGN MANUFACTURER	CAPACITY		CONDENSER								FAN COIL						NOTES
		TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	BOD MODEL NUMBER	LOCATION	TYPE	VOLT/PH	MCA	MOP	SEER	WEIGHT	LxWxH	BOD MODEL NUMBER	LOCATION	TYPE	WEIGHT	LxWxH	
CDR2130 AHC2140	mitsubishi	36	25	PUY-A36NKA7	OUTDOOR	WALL-HUNG	208/1	26	31	18.8	250	41x14x53	PKA-A36KA7	ELECTRICAL ROOM	WALL MOUNTED	60	46x12x14	

ELECTRIC UNIT HEATER / CABINET HEATER SCHEDULE							
UNIT NO.	BASIS OF DESIGN	AREA SERVED	HEATER ELECTRICAL DATA				NOTES
			KW	AMPS	STEPS	VOLT/ PH	
UH2154	DAYTON 52K68	TANK ROOM W	1.5	12.6	1	115/1	

GAS FIRED UNIT HEATER SCHEDULE																	
UNIT NO.	AREA SERVED	BASIS OF DESIGN	CFM	TEMP. DIFF. (DEG. F)	FAN ELECTRICAL DATA				GAS HEATING				MTG. HT (FT)	THROW (FT)	THROW DIRECTION	BASIS OF DESIGN	NOTES
					HP	VOLT	PH	HZ	INPUT (BTUH)	OUTPUT (BTUH)	EFFICIENCY	GAS TYPE					
UH2150	TANK ROOM WEST	MODINE HD30	505	44	1/15	460	3	60	30,000	24,600	82%	NAT	13	25	HORIZ	MODINE HD30	1,2,3,4
UH2151	TANK ROOM EAST	MODINE HD30	505	44	1/15	460	3	60	30,000	24,600	82%	NAT	13	25	HORIZ	MODINE HD30	1,2,3,4

- NOTES:
1. PROVIDE BUILT IN STAGED THERMOSTAT, MAGNETIC CONTACTOR, SUB CIRCUIT FUSING, FAN DELAY ON SHUT DOWN, HEATING DELAY ON START UP, CONTROL TRANSFORMER, DISCONNECT SWITCH, MOUNTING BRACKETS AND THERMAL CUTOUT SWITCH FOR EACH ELEMENT.
 2. 3-WIRE POWER FEED.
 3. CEILING HUNG
 4. 460/3 POWER FEED WITH INTEGRAL TRANSFORMER



90% DESIGN



Sammamish Plateau Water
PFAS Project

REVISIONS		
REV	DATE	DESCRIPTION
LINE IS 2 INCHES AT FULL SIZE		
DESIGNED: K.RICE		
DRAWN: K.RICE		
CHECKED: D.STEWART		
CHECKED:		
APPROVED: T.GATLIN		
FILENAME M-20-7001.dwg		
BC PROJECT NUMBER 155452		
CLIENT PROJECT NUMBER		
HVAC		
MECHANICAL SCHEDULES		
DRAWING NUMBER M-20-7001		
SHEET NUMBER OF		

Sammamish Plateau Well 9 PFAS					
MAXIMUM DEMAND CURRENT READING OVER 30 DAYS				265.9	A @ 480V
(PER NEC 220.87, MAXIMUM DEMAND * 125%)				332.4	A
<u>PROJECT ADDED LOADS:</u>					
SEE ONELINE AND PANEL SCHEDULE FOR DETAILS	43.80	A @ 480V	=	43.80	A @ 480V
Total added load: (See MCC2013 oneline and elevation for details)			=	43.80	A @ 480V
Total added load + 125%:				54.75	A
<u>PROJECT TOTAL DEMAND LOAD</u>					
332.375	+	54.75	=	387.13	A @ 480V



 **GAC FEEDER BUCKET**
E-00-1001 SCALE: NO SCALE

GENERAL NOTES:

1. EXISTING CIRCUIT INFORMATION WAS DERIVED FROM OWNER PROVIDED RECORD DOCUMENTATION. VERIFY CIRCUIT INFORMATION PRIOR TO DEMOLITION AND CONSTRUCTION.
2. CONTRACTOR TO UPDATE PANEL SCHEDULES WITH NEW CIRCUIT INFORMATION.
3. ALL BOLD ITEMS SHOWN ON THIS SHEET ARE NEW FOR THIS CONTRACT.

KEY NOTES:

- 1 EXISTING PANEL LOCATED IN IN LAB ROOM.



**Brown AND
Caldwell**

90% DESIGN



Sammamish
Plateau Water
PFAS Project

REVISIONS

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: T.HALL

DRAWN: J.MILLER

CHECKED:

CHECKED:

APPROVED

FILENAME

E-10-7001.dwg
BC PROJECT NUMBER
155452
CLIENT PROJECT NUMBER

ELECTRICAL

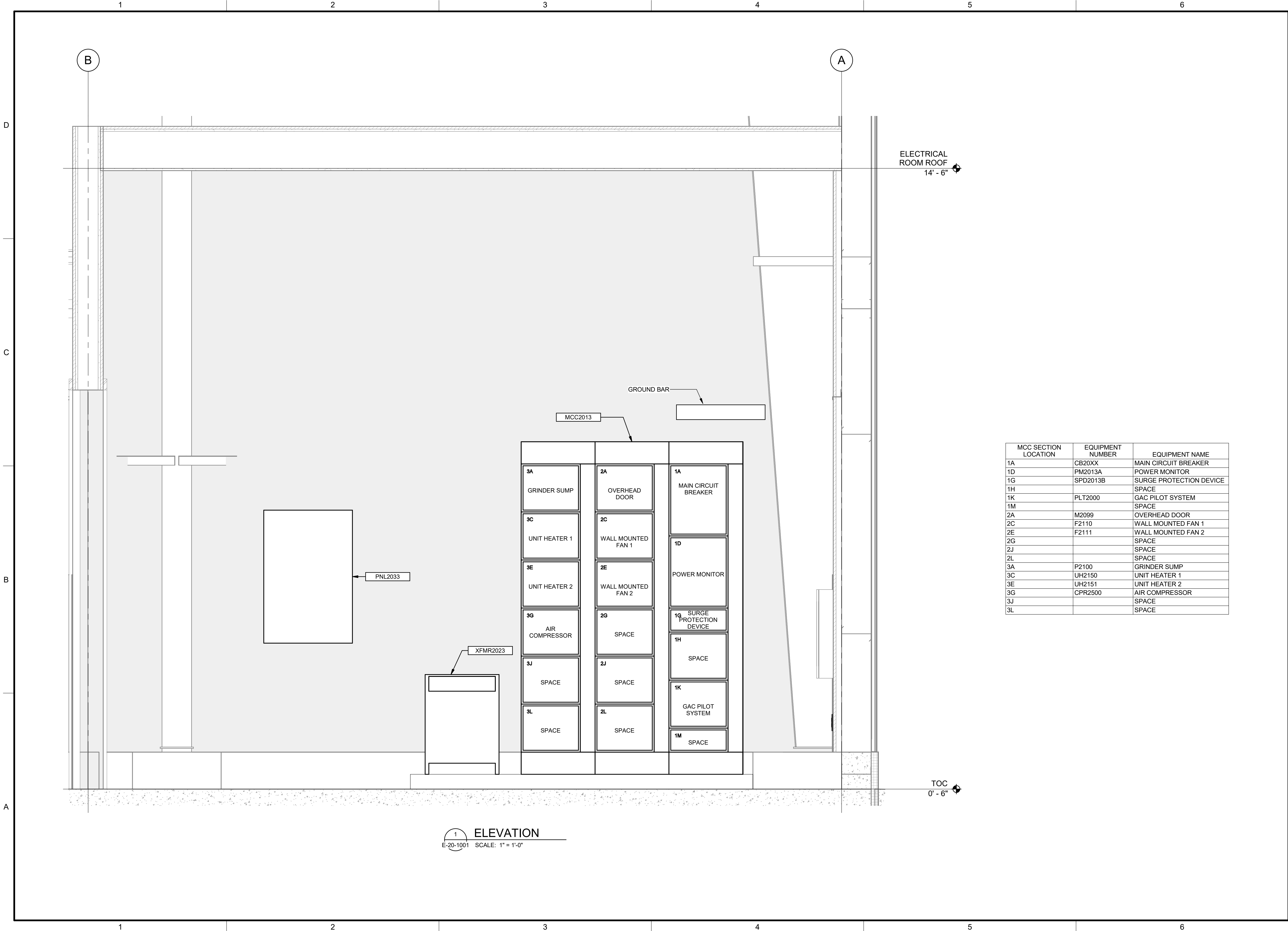
WELL 9 BUILDING LOADS AND SCHEDULE

DRAWING NUMBER

E-10-7001

SHEET NUMBER
OF

Plot Date: 12/16/2020 9:59:59 PM Path: BIN 360/1/155452 - Sammamish Plateau PFAS Design/155452-E-20/19.rvt



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Sammamish Plateau
Water
PFAS Design

REVISIONS

REV	DATE	DESCRIPTION

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APPROVED:

FILE NAME

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

ELECTRICAL

MCC AND
ELECTRICAL
EQUIPMENT
ELEVATIONS 3

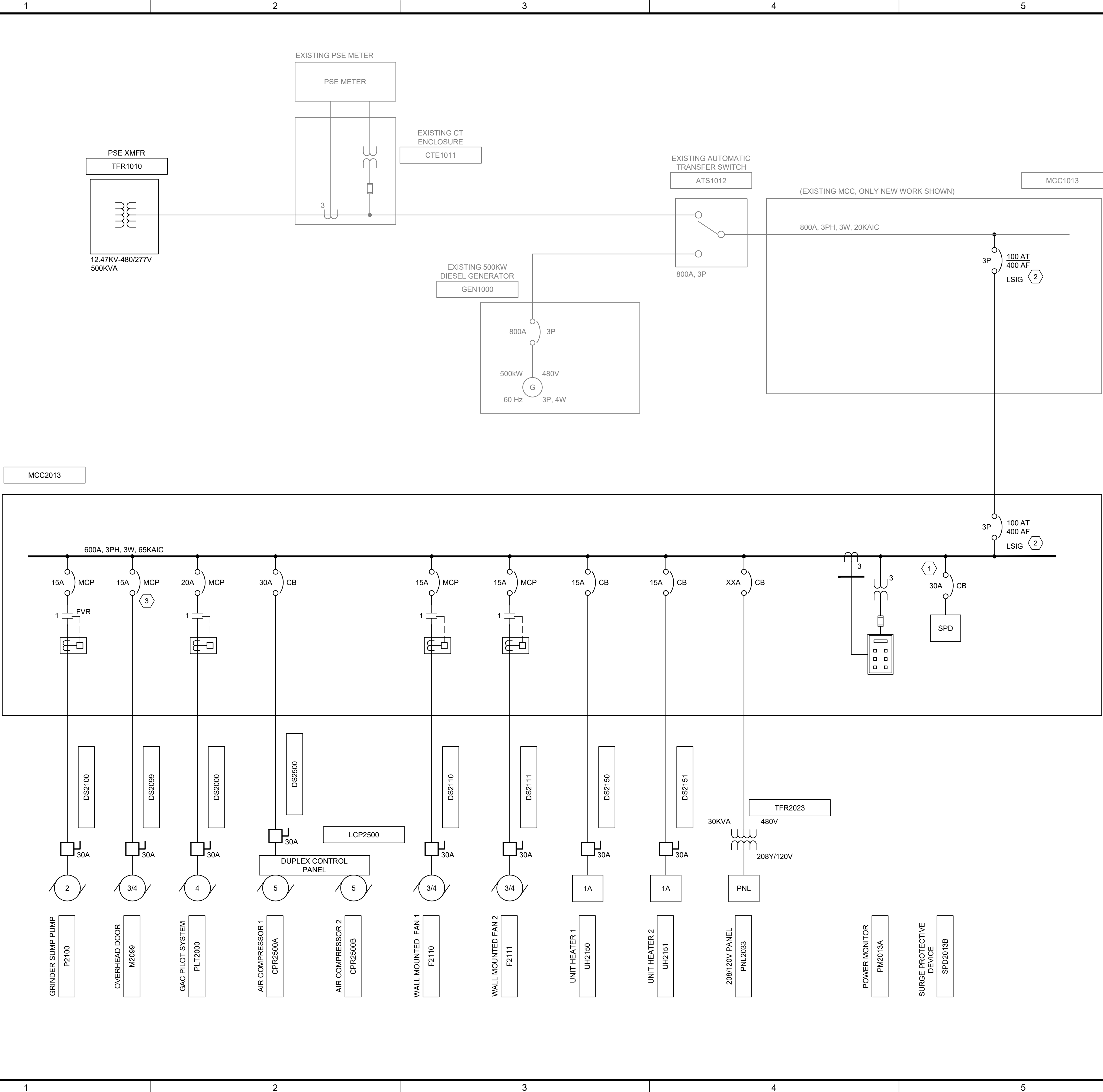
DRAWING NUMBER

E-20-4003

SHEET NUMBER

OF

Path: C:\USERS\J.MILLER\APPDATA\LOCAL\BENTLEY\PROJECT\WISEWORKING\DIR\BRVNCALD-PW-01\J.MILLER@BRVNCALD.COM\DWG20855 FILENAME: E-20-5001.DWG PLOT DATE: 12/16/2020 1:30 PM CAD USER: JEREMY J. MILLER



GENERAL NOTES:

1. -

KEY NOTES:

- 1 PROVIDE CIRCUIT BREAKER AS REQUIRED BY SPD MANUFACTURER.
- 2 PROVIDE AN ARC FAULT REDUCTION MAINTENANCE SWITCH (ARMS) ON BREAKER.
- 3 CONTACTOR AND CONTROLLER FOR DOOR OPERATOR PROVIDED AS PART OF A PACKAGED SYSTEM.



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Sammamish Plateau Water
PFAS Project

REVISIONS

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E-20-5001.dwg

BC PROJECT NUMBER

155452

CLIENT PROJECT NUMBER

ELECTRICAL

GAC BUILDING
ONE-LINE DIAGRAM

DRAWING NUMBER

E-20-5001

SHEET NUMBER

OF

PANEL SCHEDULE						PNL2033							
208Y/120 VOLTS NORMAL POWER			BUS RATING: 100 AMPS			LOCATION:		GAC BUILDING		FEED-THRU LUGS		N	
3 -PHASE		PNL. MFR.: xx	MAIN BKR: 100 AMPS CB			MOUNTING:		WALL		DOUBLE LUGS		N	
4 -WIRE		CAT. NO.: xx	A.I.C. RATING: 18,000 AIC SYM			FED FROM:		TOP		ISOLATED GND		N	
REF. DWG.: xx						CONDUCTORS:		xx		200% NEUTRAL		Y	
CKT NO.	CIRCUIT DESCRIPTION			CODE	LOAD (KVA)	BKR AMPS	PH	BKR AMPS	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION		CKT NO.
1	SPD					30	-A-	20	0.90	R	RECEPTACLES - INTERIOR NORTH		2
3	-					-	-B-	20	0.72	R	RECEPTACLES - INTERIOR SOUTH		4
5	-					-	-C-	20	0.36	R	RECEPTACLES - EXTERIOR		6
7	RESTROOM LIGHTS/RECEPTACLE			L	0.23	20	-A-	20	0.18	R	RECEPTACLE - BACKWASH TANK		8
9	H2160 - INSTA-HOT WATER HEATER			LM	1.44	20	-B-	20	1.00	H	BATHROOM WALL HEATER		10
11	SPARE					20	-C-	30	2.45	H	AHC2140		12
13	SPARE					20	-A-		2.45	H	-		14
15	SPARE					20	-B-	20			SPARE		16
17	PLC CABINET			Z	0.50	20	-C-	20	0.36	R	RECEPTACLES - ELECTRICAL ROOM		18
19	GRINDER PUMP CONTROL PANEL			Z	1.00	15	-A-	20	0.54	R	RECEPTACLES - ELECTRICAL ROOM		20
21	AIR DRYER			Z	0.72	20	-B-	20	0.18	S	RECEPTACLES - AIR COMPRESSOR		22
23	LIGHTING - INTERIOR			L	1.38	20	-C-	20	1.20	H	F2120 - WALL MOUNTED FAN 3		24
25	LIGHTING - INTERIOR			L	0.92	20	-A-	20	1.20	H	F2121 - WALL MOUNTED FAN 4		26
27	LIGHTING - EGRESS			L	0.10	20	-B-	20			SPARE		28
29	LIGHTING - EXTERIOR			L	0.15	20	-C-	20	0.08	L	LIGHTING - ELECTRICAL ROOM		30
31	SPARE					20	-A-	20			SPARE		32
33	SPARE					20	-B-	20	0.20	Z	HEAT TRACE - BACKWASH TANK		34
35	SPARE					20	-C-	20			SPARE		36
37	SPARE					20	-A-	20			SPARE		38
39	SPARE					20	-B-	20			SPARE		40
41	SPARE					20	-C-	20			SPARE		42
CODES:				CONNECTED LOAD		CALCULATED DEMAND LOAD				REMARKS:			
H = HVAC LOADS				8.30	KVA	8.30	KVA	(100%)	1.				
K = KITCHEN EQUIPMENT				0.00	KVA	0.00	KVA	(100%)					
L = LIGHTING LOADS				2.86	KVA	3.57	KVA	(125%)					
LM = LARGEST SINGLE MOTOR				1.44	KVA	1.80	KVA	(125%)					
M = OTHER MOTOR LOADS				0.00	KVA	0.00	KVA	(100%)					
NC = NON-COINCIDENTAL LOADS				0.00	KVA	0.00	KVA	(0%)					
R = GENERAL USE RECEPTACLES				2.88	KVA	2.88	KVA	(50%>10KVA)					
S = DEDICATED RECEPTACLES				0.18	KVA	0.18	KVA	(100%)					
Z = MISC. OR APPLIANCES				2.42	KVA	2.42	KVA	(100%)					
TOTALS: 18.08				KVA		19.15	KVA		PHASE A 60 AMPS				
									PHASE B 36 AMPS				
									PHASE C 54 AMPS				



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PFAS Project

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ELECTRICAL

GAC BUILDING PANEL SCHEDULES

DRAWING NUMBER

E-20-7001

SHEET NUMBER
OF